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## OIL AND GAS DEVELOPMENT IN ILLINOIS IN 1940\*

By

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ILLINOIS produced 146,788,000 bbl. of oil in 1940, or nearly 11.0 per cent of the total for the United States, and ranked fourth among the oil-producing states. Its production was only slightly less than that of Oklahoma, which produced 11.5 per cent of the national total. Illinois' production in 1940 represents an increase of 55 per cent over the previous year, when it amounted to 94,912,000 barrels.

The development of the Devonian limestone in the Salem and Centralia fields is largely responsible for the increase in production during 1940. Production from the Devonian limestone in these two fields was estimated to be 36,698,000 bbl., or 25 per cent of the state's total production (Table 1). The increase in production during June, when the state's daily average production attained a peak of 518,200 bbl. for the week ending June 29, was due to the Devonian production at Centralia (Fig. 1). The initial production of the best Devonian wells in the Centralia field was as high as 12,000 bbl. in 24 hr. Daily average production in Illinois for 1940 was 400,000 bbl. of oil, but actually daily production fluctuated widely during the year. At the beginning of 1940 daily production was approximately 330,000 bbl. During the first half of the year it increased irregularly to the peak in June mentioned above and as the prolific Devonian producing areas were drilled up, the state's daily production declined rapidly during July and contin-

ued to decline, although more slowly, until the end of the year, when the daily production was approximately 325,000 bbl. The daily average production per well in the new fields at the end of the year was approximately 40 bbl. (Fig. 1).

Oil from the Devonian was also produced in the Bartelso field, Clinton County, the Sandoval field, Marion County, and the Irvington field, Washington County, bringing the estimated total production from the Devonian limestone to about 26 per cent of the state's total production. The remainder was obtained largely from the Mississippian system.

About 2 per cent of the total was from Pennsylvanian and Ordovician strata. The decline in the Devonian limestone production has been so rapid that the 1941 output from this system will probably be only a small fraction of that of 1940 unless large new reserves are discovered.

The "Trenton" (Ordovician) limestone has been tested in two wells in the Centralia field and both were small oil producers at a depth of about 4000 ft. The "Trenton" also was found productive in the Salem field at a depth of 4500 ft. (Table 5). The initial production of the discovery well, which was completed shortly after the end of the year, was 130 bbl. on pump. Other wells drilled early in 1941 had initial productions averaging 172 barrels.

The outlook for 1941 is for a continuation of drilling activity in Illinois, but at

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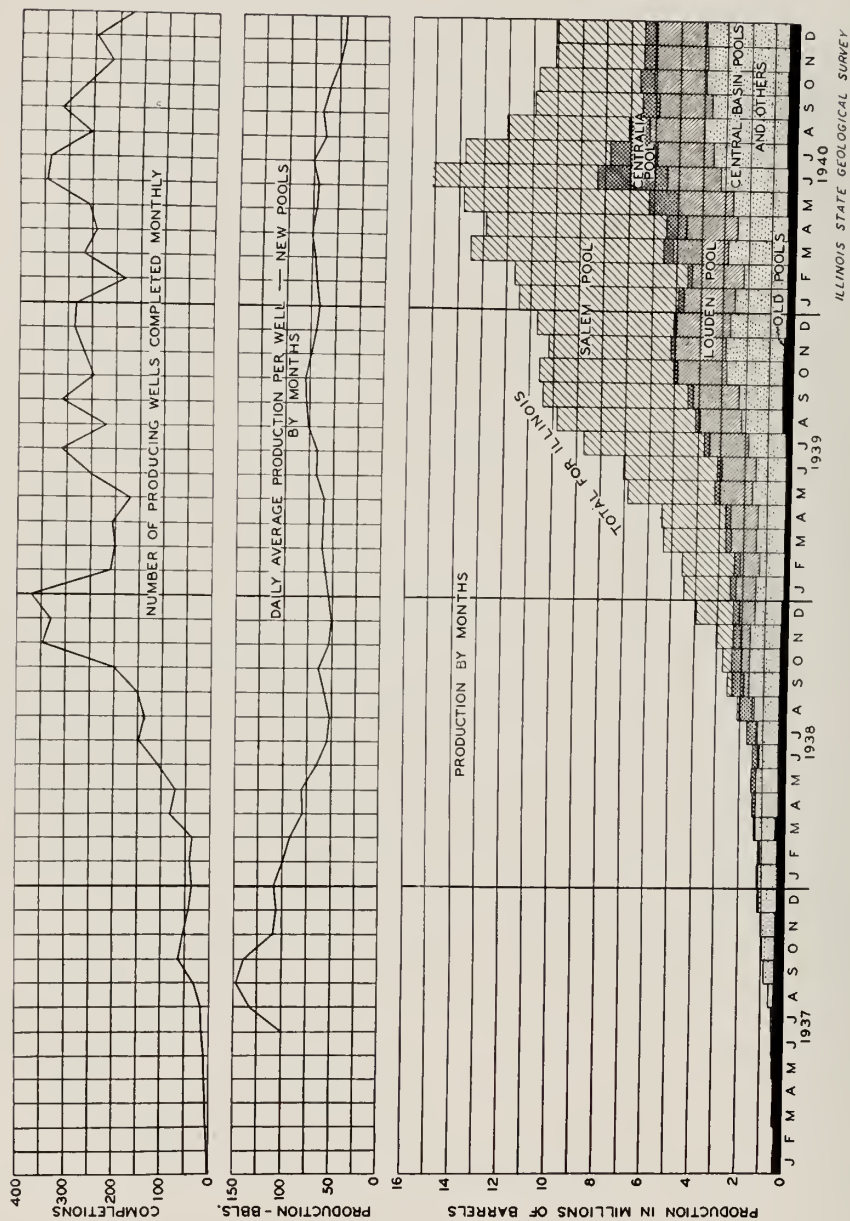


FIG. 1.—Production, daily average production per well, number of producing wells completed monthly from 1937 to 1940.

a declining rate (Fig. 1, upper curve). The most active area at the end of 1940 was in the deep basin area in Wabash, Edwards, White, and Hamilton Counties.

During 1940, the wells completed numbered 3829, of which 3064 were oil producers, 16 were gas producers and 749 were dry holes (Table 2). Of the total, 523 are classified as wildcat wells and of these 48 (or 9.2 per cent) were successful in obtaining production; 30 discovered new fields and 18 discovered extensions to known fields (Table 4 and Fig. 2).

The sequence of rock strata and relative positions of the producing zones are shown in figure 3.

The results of an investigation to ascertain the reason for the locations of as many as possible of the wildcat wells are set forth in the accompanying table.

Of the 523 wildcat wells, the 303 known to have been located by scientific methods were 15 per cent successful whereas the remaining 220 were only 1.3 per cent successful. The total footage of wildcat wells drilled in 1940 was 1,092,011 ft., of

Reason for Drilling	Total Number	Successful	Per Cent
Geology, geophysics and geochemistry.....	303	45	15.0
Not based on geologic or geophysical information.....	170	2	1.2
Unknown.....	50	1	2.0
Total.....	523	48	9.2

which a total of 121,342 ft. was drilled in successful wildcat wells.

The number of producing wells in the new fields increased from 5042 at the beginning to 7965 at the end of 1940.

There were 361 drilling operations in the state at the end of the year. As of Dec. 31, 1940, of this number 248 were in the new fields. The area proved for production in the new fields increased from 54,210 acres at the beginning of the year to 78,040 acres at the end, an increase of 23,830 acres, of which 6480 acres are in the 30 fields discovered in 1940 and the remainder, 17,350 acres, in extensions to known fields.

#### EXPLANATION OF TABLE 1

The field is the unit in table 1. Each space may represent one of four possibilities; either it is not applicable to the particular field, or the proper entry is not determinable, or the proper entry may be determinable but is not determinable from data available to the author, or the proper entry is determinable. Spaces that are not applicable are left blank; in spaces where the proper entries are determinable from data available to the author, y is inserted; y implies a hope that in some future year a definite figure will be available; x indicates that data are not known.

The entry of a 0 is a positive declaration.

The quantity of gas includes gas sold or otherwise marketed. Gas blown into the air, burned as flares or otherwise wasted is not included.

Under the columns on "Depth," the average depth to the top of the productive zone and to the bottom of the productive well, when subtracted, does not necessarily give the approximate thickness of the productive zone.

In classifying wells as to producing methods, all wells that are not "flowing" are entered in the column headed "Artificial Lift."

#### FOOTNOTES TO COLUMN HEADINGS—TABLE 1

<sup>a</sup> The old Southeastern fields are listed in geographic order from north to south; all others are listed alphabetically by counties.

<sup>b</sup> Areas where both oil and gas are produced, unless gas is marketed outside the field, are included in the column headed "Oil."

<sup>c</sup> Wells producing both oil and gas are classified as "Producing Oil." Gas wells are those producing gas, but include those producing wet gas, from which casinghead gasoline may be produced.

<sup>d</sup> Letters indicate type of operation: PM, pressure maintenance from early life of field; RP, field repressuring in its later life.

<sup>e</sup> Cam, Cambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; MisL, Lower Mississippian; MisU, Upper Mississippian; Pen, Pennsylvanian.

<sup>f</sup> S, sandstone; L, limestone; LS, Limestone, sandy.

<sup>g</sup> "Por" indicates that the reservoir rock is of pore type; "Cav," cavernous type.

<sup>h</sup> A, anticline; AM, accumulation due to both anticlinal and monoclinal structure; ML, monocline-lens; D, dome; T, terrace; N, nose.

## OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—Oil and Gas Production in Illinois

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells				
			Oil	Gas <sup>b</sup>	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940		End of 1940	
										Completed	Abandoned	Temporarily Shut Down	Producing Oil <sup>c</sup>
													Producing Gas <sup>d</sup>
1	Warrenton-Borton, <i>Edgar</i>	1906	100	0	30,000	345	0	0	22	0	0	14	0
2	Westfield, <i>Clark, Coles...</i>	1904	9,000	75	x	x	x	0	1,627	3	26	14	311
3			850	75	x	x	x	0	186	1	0	y	y
4			9,000	0	x	x	x	0	1,448	2	0	y	y
5			220	0	x	x	x	0	13	0	0	y	y
6	Siggins, <i>Cumberland, Clark</i>	1906	3,580	105	x	x	x	0	995	0	31	0	812
7			3,135	55	x	x	x	0	854	0	y	0	y
8			435	15	x	x	x	0	90	0	y	0	y
9			855	105	x	x	x	0	192	0	y	0	y
10	York, <i>Cumberland</i>	y	310	40	x	x	x	0	70	0	0	0	44
11	Casey, <i>Clark</i>	1906	1,925	55	x	x	x	0	533	1	0	0	489
12			190	15	x	x	x	0	41	0	0	0	y
13			400	0	x	x	x	0	82	0	0	0	y
14			1,525	15	x	x	x	0	320	1	0	0	y
15	Martinsville, <i>Clark</i>	1907	710	155	x	x	x	0	215	2	10	2	112
16			15	20	x	x	x	0	7	0	y	y	y
17			275	35	x	x	x	0	63	0	y	y	y
18			710	0	x	x	x	0	22	1	y	y	y
19			600	0	x	x	x	0	34	0	y	y	y
20			640	0	x	x	x	0	39	0	y	y	y
21			10	0	x	x	0	0	2	1	y	y	y
22	North Johnson, <i>Clark</i>	1907	1,320	20	x	x	x	x	485	0	0	0	433
23			1,115	0	x	x	x	x	296	0	0	0	y
24			160	0	x	x	x	x	32	0	0	0	y
25			820	5	x	x	x	x	177	0	0	0	y
26			215	0	x	x	0	0	44	0	0	0	y
27	South Johnson, <i>Clark</i>	1907	1,715	65	x	x	x	x	535	0	0	0	479
28			185	5	x	x	x	x	38	0	0	0	y
29			295	0	x	x	x	x	59	0	0	0	y
30			1,675	35	x	x	x	x	402	0	0	0	y
31			845	5	x	x	x	x	170	0	0	0	y
32	Bellair, <i>Crawford, Jasper</i>	1907	1,300	5	x	x	x	x	486	0	0	15	380
33			1,165	0	x	x	x	x	310	0	0	y	y
34			315	0	x	x	x	x	65	0	0	y	y
35			910	0	x	x	x	x	182	0	0	y	y
36	Clark County Division <sup>1</sup>		19,960	520	52,723,000	335,000	x	y	4,946	6	67	31	3,060
37	Main, <sup>2</sup> <i>Crawford</i>	1906	35,135	515	x	x	x	x	7,323	1	133	165	4,862
38			340	0	x	x	x	x	68	0	y	y	y
39			33,795	510	x	x	x	x	7,142	1	y	y	y
40			1,000	0	x	x	x	x	108	0	y	y	y
41	New Hebron, <i>Crawford</i>	1909	1,350	210	x	x	x	x	297	0	28	0	146
42	Chapman, <i>Crawford</i>	1914	1,045	515	x	x	x	x	193	0	7	0	61
43	Parker, <i>Crawford</i>	1907	1,310	30	x	x	x	x	256	0	2	0	219
44	Allison-Weger, <i>Crawford</i>	y	1,075	20	x	x	x	x	147	0	0	0	65
45	Flat Rock, <sup>3</sup> <i>Crawford</i>	y	1,375	545	x	x	x	x	289	0	7	0	137
46	Birds, <i>Crawford</i>	y	4,370	115	x	x	x	x	684	0	11	5	449
47	Crawford County Division <sup>6</sup>		45,665	1,945	145,908,000	1,226,000	x	y	9,189	1	188	165	5,939
48	Lawrence, <i>Lawrence, Crawford</i>	1906	24,150	1,550	x	x	x	x	4,405	4	58	12	3,258
49			5,015	35	x	x	x	x	1,233	1	y	y	y
50			2,240	0	x	x	x	x	475	0	y	y	y
51			345	1,095	x	x	x	x	243	0	y	y	y
52			15,960	220	x	x	x	x	3,017	0	y	y	y

<sup>b</sup> Footnotes to column heads and explanation of symbols are given on page 3.<sup>1</sup> Total of lines 2, 6, 10, 11, 15, 22, 27, 32.<sup>2</sup> Includes Kibbie, Oblong, Robinson, and Hardinsville.<sup>3</sup> Includes Swearingen gas.<sup>6</sup> Total of lines 37, 41, 42, 43, 44, 45, 46.



TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. <sup>4</sup>	Character of Oil	Producing Formation										Deepest Zone Tested to End of 1940	
	Flowing	Artificial Lift			Gravity, A.P.I. at 60°F. <sup>5</sup> Weighted Average	Sulphur, Per Cent	Name	Age <sup>c</sup>	Character <sup>f</sup>	Porosity <sup>g</sup>	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure <sup>h</sup>	Name	Depth of Hole, Ft.
			Initial	Avg. at End of 1940	Repressuring Operation <sup>d</sup>						Top Prod. Zone	Bottoms Prod. Wells				
1	G	0					Unnamed	Pen	S	Por	159	215	x	ML	Pen	715
2	0	311	200±	x		34.0	See below								St. Peter	3,009
3	0	y	x	x		30.0	Shallow gas sand	Pen	S	Por	281	376	36	D		
4	0	y	x	x		33.5	Westfield lime	MisL	S	Cav	334	446	x	D		
5	0	x	x	x		38.2	"Trenton"	Ord	L	Por	2,265	2,568	x	D		
6	0	812	x	x	RP	33.0	See below							D	Devonian	2,010
7	0	y	x	x		34.0	First Siggins sand	Pen	S	Por	367	465	x	D		
8	0	y	x	x		(33.6)	Second and third Siggins sand	Pen	S	Por	478	562	x	D		
9	0	y	x	x		(25.7)	Lower Siggins sand	Pen	S	Por	556	590	x	D		
10	0	44	x	x		(30.3)	York sand	Pen	S	Por	588	680	x	AM		960
11	0	48½	x	x	RP	29.2	See below							AM	MisL	808
12	0	y	x	x		(31.9)	Upper gas sand	Pen	S	Por	263	358	x	AM		
13	0	y	x	x		(30.1)	Lower gas sand	Pen	S	Por	309	426	x	AM		
14	0	y	x	x		(33.6)	Casey sand	Pen	S	Por	444	505	x	AM		
15	0	112	x	x		36.8	See below							D	St. Peter	3,411
16	0	y	x	x		y	Shallow sand	Pen	S	Por	255	411	x	D		
17	0	y	x	x		y	Casey sand	Pen	S	Por	449	511	x	D		
18	0	y	x	x		y	Martinsville	MisL	L	Por	477	506	x	D		
19	0	y	x	x		(38.9)	Carper	MisL	S	Por	1,340	1,418	x	D		
20	0	y	x	x		y	"Niagara"	Dev	L	Por	1,553	1,596	x	D		
21	0	y	x	x		(39.6)	"Trenton"	Ord	L	Por	2,708	2,830	x	D		
22	0	433	x	x		31.0	See below							AM	Mis	965
23	C	y	x	x		y	Claypool sand	Pen	S	Por	416	486	x	AM		
24	0	y	x	x		y	Shallow sands	Pen	S	Por	314	451	x	AM		
25	0	y	x	x		y	Casey sand	Pen	S	Por	465	508	x	AM		
26	0	y	x	x		y	Upper Partlow	Pen	S	Por	534	554	x	AM		
27	G	47½	x	x		32.2	See below							AM	Devonian	2,030
28	0	y	x	x		y	Claypool sand	Pen	S	Por	392	549	x	AM		
29	0	y	x	x		y	Casey sand	Pen	S	Por	453	518	x	AM		
30	0	y	x	x		y	Upper Partlow	Pen	S	Por	489	570	x	AM		
31	0	y	x	x		28.5	Lower Partlow	Pen	S	Por	598	618	x	AM		
32	0	380	x	x	RP	33.7	See below							AM	MisL	1,471
33	0	y	x	x		(32.4)	"500 Ft." sand	Pen	S	Por	561	726	x	AM		
34	0	y	x	x		y	"800 Ft." sand	Pen	S	Por	817	907	x	AM		
35	0	y	x	x		(37.0)	"900 Ft." sand	MisU	S	Por	886	920	x	AM		
36	0	3,060	x	x		33.0							33±			
37	0	4,862	425±	y	RP	33.0	See below								"Trenton"	4,620
38	0	y	x	x		y	Shallow sand	Pen	S	Por	508	822	x	ML		
39	0	y	x	x		32.8	Robinson sand	Pen	S	Por	900	960	25±	ML	"Trenton"	4,620
40	0	y	x	x		y	Oblong	Mis	S, L	Por	1,337	1,416	x	A, ML	Mis	1,479
41	0	146	x	x	RP	30.1	Robinson sand	Pen	S	Por	940	975	x	ML	Mis	2,056
42	0	61	x	x		y	Robinson sand	Pen	S	Por	995	1,015	x	ML	Mis	2,279
43	0	21½	x	x		29.5	Robinson sand	Pen	S	Por	1,000	1,025	x	ML	Pen	1,127
44	0	65	x	x		22.5	Robinson sand	Pen	S	Por	912	930	x	ML	Pen	1,041
45	0	13½	x	x	RP	31.8	Robinson (Flat Rock) sand	Pen	S	Por	935	945	x	ML	Devonian	3,110
46	0	44½	x	x	RP	31.8	Robinson sand	Pen	S	Por	930	950	x	ML	MisL	1,731
47	0	5,93½	425±	x		32.3		Pen, Mis	S	Por				ML	"Trenton"	4,620
48	0	3,25½	650±	x	RP	32.9	See below							A	St. Peter	5,190
49	0	y	x	x		y	Bridgeport sand	Pen	S	Por	800	1,000	40	A		
50	0	y	x	x		y	Buchanan	Pen	S	Por	1,250	1,265	15	A		
51	0	y	x	x		y	"Gas" sand	MisU	S	Por	1,330	1,345	15	A		
52	0	y	600±	x		y	Kirkwood	MisU	S	Por	1,400	1,430	30	A		

<sup>4</sup> Pressures in the southeastern Illinois oil fields are estimated bottom-hole pressures reported in previous Survey publications.

<sup>5</sup> All gravities given prior to 1936 (except those in parentheses) were from data for the year 1925 furnished by the Illinois Pipe Line Co. Gravities in parentheses are for particular samples, see Illinois State Geol. Survey Bull. 54, Table 3. The values have been converted from Baumé to A.P.I. gravities.

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas <sup>b</sup>	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940		End of 1940		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil <sup>c</sup>	Producing Gas <sup>e</sup>
53			4,020	200	x	x	x	x	688	3	y	y	y	0
54			6,956	0	x	x	x	x	958	0	y	y	y	0
55	St. Francisville, Lawrence	y	420	0	x	x	x	x	55	0	0	0	31	0
56	Lawrence County Division <sup>7</sup>		24,570	1,550	225,964,000	1,528,000	x	y	4,460	4	58	12	3,289	0
57	Allendale, Wabash	1912	1,680	0	4,849,000	106,000	x	y	427	6	0	0	207	0
58	Total Southeastern Fields <sup>8</sup>		91,855	3,970	429,474,000	3,195,345	x	y	19,044	17	313	222	12,495	0
59	Ayers gas, Bond	1922	0	325	0	0	194.4	13.8	19	0	0	0	0	7
60	Greenville gas, Bond	1916 <sup>9</sup>	0	160	0	0	990.0	0	4	0	0	0	0	0
61	Bartelso, Clinton	1936	580	0	739,000	378,000	0	0	64	24	0	0	64	0
62			320	0	528,000	167,000	0	0	40	1	0	0	40	0
63			230	0	211,000	211,000	0	0	24	23	0	0	24	0
64	Carlyle, Clinton	1911	915	0	3,402,000	29,000	0	0	165	0	0	40	103	0
65	Frogtown, Clinton	1918 <sup>10</sup>	300	0	x	0	0	0	12	0	0	0	0	0
66	Ava-Campbell Hill, Jackson	1917 <sup>11</sup>	70	370	x	0	x	0	35	0	0	0	0	0
67	Colmar-Flymouth, McDonough, Hancock	1914	2,450	0	2,673,000	121,000	x	y	482	5	0	73	213	0
68	Decatur, Macon	1937 <sup>12</sup>	10	0	1,000	0	0	0	2	0	2	0	0	0
69	Carlinville, Macoupin	1909 <sup>13</sup>	30	50	x	0	x	0	8	0	0	0	0	0
70	Gillespie-Benld gas, Macoupin	1923 <sup>14</sup>	0	80	0	0	135.8	0	4	0	0	0	0	0
71	Gillespie-Wyen, Macoupin	1915	40	0	x	0	0	0	22	0	0	12	0	0
72	Spanish Needle Creek gas, Macoupin	1915 <sup>15</sup>	0	80	0	0	14.4	0	7	0	0	0	0	0
73	Staunton gas, Macoupin	1916 <sup>16</sup>	0	400	0	0	1,050.0	0	18	0	0	0	0	0
74	Collinsville, Madison	1909 <sup>17</sup>	40	0	850	0	0	0	6	0	0	0	0	0
75	Brown-Langewisch Kuester-Junction City, Marion	1910	175	0	x	x	0	0	10	0	0	0	9	0
76			60	0	x	x	0	0	6	0	0	0	5	0
77			115	0	x	x	0	0	4	0	0	0	4	0
78	Sandoval, Marion	1909	770	0	4,181,000	721,000	0	0	149	4	0	0	49	0
79			770	0	2,680,000	14,000	0	0	123	0	0	0	23	0
80			380	0	1,501,000	707,000	x	y	26	4	0	0	26	0
81	Wamac, Marion, Clinton, Washington	1921	250	0	422,000	19,000	0	0	104	0	7	0	36	0
82	Litchfield, Montgomery	1879 <sup>18</sup>	100	0	22,000	0	0	0	18	0	1	0	0	0
83	Waterloo, Monroe	1920 <sup>19</sup>	230	0	197,000	21,000	0	0	38	8	3	0	12	0
84	Jacksonville gas, Morgan	1910 <sup>20</sup>	30	1,290	2,100	0	x	0	53	0	0	0	0	0
85	Pike County gas, Pike	1905 <sup>21</sup>	0	8,960	0	0	x	0	68	0	0	0	0	0
86	Sparta, Randolph	1888 <sup>22</sup>	65	100	x	0	x	0	20	1	1	0	0	0

<sup>7</sup> Total of lines 48 and 55.<sup>8</sup> Total of lines 1, 36, 47, 56, 57.<sup>9</sup> Abandoned 1923.<sup>10</sup> Abandoned 1933.<sup>11</sup> Abandoned 1934.<sup>12</sup> Abandoned 1940.<sup>13</sup> Abandoned 1925.<sup>14</sup> Abandoned 1935.<sup>15</sup> Abandoned 1934.<sup>16</sup> Abandoned 1919.<sup>17</sup> Abandoned 1921.<sup>18</sup> Abandoned 1904.<sup>19</sup> Abandoned 1930, revived 1939.<sup>20</sup> Abandoned 1937.<sup>21</sup> Abandoned 1930.<sup>22</sup> Abandoned 1900.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. <sup>4</sup>		Repressuring Operation <sup>d</sup>	Character of Oil		Name	Producing Formation							Deepest Zone Tested to End of 1940	
	Number of Wells					Gravity, A.P.I. at 60°F. <sup>5</sup> Weighted Average	Sulphur, Per Cent		Age <sup>e</sup>	Character <sup>f</sup>	Porosity <sup>g</sup>	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure <sup>h</sup>	Name	Depth of Hole, Ft.
	Flowing	Artificial Lift										Top Prod. Zone	Bottoms Prod. Wells				
53	0	y	650	x		y	x	Tracey	MisU	S	Por	1,560	1,580	20	A		
54	0	y	x	x		y	x	McCoskey	MisL	L	Por	1,700	1,710	10	A		
55	0	31	600	x		37.3	x	Bethel	MisU	S	Por	1,843	1,865	22	ML	Mis	1,900
56	0	3,289	x	x												St. Peter	5,190
57	0	207	x	x	RP	35.1	x	Biehl sand	Pen	S	Por	1,425	1,460	20	AM	MisL	2,367
58	0	12,495															
59			335	y				Lindley (2d)	MisU	S	Por	940	945	5	A	Devonian	2,181
60			x					Lindley (1st, 2d)	MisU	S	Por	927	993	x	A	Devonian	2,290
61	0	64	x	x											D	Devonian	2,447
62	0	40	x	x		36.2	0.20	Carlyle	MisU	S	Por	984	1,008	24	D		
63	0	24	x	x		41.5	0.27	Devonian	Dev	L	Por	2,429	2,447	9	D		
64	0	63	x	x	RP	35.2	0.26	Carlyle	MisU	S	Por	1,035	1,055	20	A	St. Peter	4,120
65	0	0	x			31.9	x	Carlyle	MisU	S	Por	950	957	7	D	Cypress	962
66	0	0	x			x	x	Cypress	MisU	S	Por	780	798	18	A	Devonian	2,530
67	0	213	x	x	RP	37.6	0.38	Hoing sand	Dev	S	Por	447	468	21	A	"Trenton"	805
68	0	0	x			39.5	x	"Niagaran"	Dev	L	Por	2,020	2,076	30	N	St. Peter	2,991
69	0	0	135			27.7	x	Unnamed	Pen	S	Por	380	398	x	A	Pen	410
70	0	0	155					Unnamed	Pen	S	Por	542	555	x	A	Pen	575
71	0	0	x	x		30.0	x	Unnamed	Pen	S	Por	650	670	x	T	"Trenton"	2,560
72	0	0	x					Unnamed	Pen	S	Por	305	405	x	D	Pen	495
73	0	0	145					Unnamed	Pen	S	Por	461	491	x	A	"Trenton"	2,371
74	0	0	x			x	x	Devonian-Silurian	Dev-Sil	L	Por	1,305	1,400	20	ML	Silurian	1,500
75	0	9															
76	0	5	x	x		32.0	x	Dykstra, Wilson	Pen	S	Por	610	630	20	D	MisL	2,001
77	0	4	x	x		32.0	x	Cypress	MisU	S	Por	1,658	1,673	15	D	Devonian	3,344
78	0	49													D	Devonian	3,055
79	0	23	x	x		34.5	x	Benoist	MisU	S	Por	1,540	1,560	20±	D		
80	0	26	x	x		38.0	0.38	Devonian	Dev	L	Por	2,924	2,939	9	D		
81	0	36	x	x		30.2	x	Petro	Pen	S	Por	720	760	20	D	MisL	1,760
82	0	0	x			23.0	0.42	Unnamed	Pen	S	Por	664	674	x	D	Pen	681
83	0	12	x	x		3.02	0.79	"Trenton"	Ord	L	Por	410	460	50	A	"Trenton"	845
84	0	0	x			x	x	Gas sand	Pen, MisL	S,SL	Por	330	335	5	ML	"Trenton"	1,390
85	0	0	x					"Niagaran"	Sil	L	Por	265	275	10	A	St. Peter	893
86	0	0	x			x	x	Cypress	MisU	S	Por	850	857	7	D	MisU	985

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells				
			Oil	Gas <sup>b</sup>	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940		End of 1940	
										Completed	Abandoned	Temporarily Shut Down	Producing Oil <sup>c</sup>
87	Dupo, St. Clair	1928	670	0	1,275,000	182,000	0	0	263	15	0	0	64
88	Total for fields prior to Jan. 1, 1937 <sup>23</sup>		98,600	15,830	442,388,950	4,666,345	2,374.6	13.8	20,615	74	327	347	13,045
89	Sorento, Bond	1938	30	0	4,000	3,000	0	0	3	2	2	0	1
90	Woburn, Bond	1940	180	0	93,000	93,000	0	0	24	24	0	0	24
91	Flora, Clay	1938	70	0	308,000	94,000	0	0	19	2	1	0	18
92			y	0	x	x	0	0	2	2	0	0	2
93			y	0	x	x	0	0	1	0	0	0	1
94			y	0	x	x	0	0	16	0	1	0	15
95	Iola, Clay	1939 <sup>24</sup>	20	0	8,000	3,000	0	0	2	0	2	0	0
96	Clay City, Clay, Wayne	1937	8,450	0	15,778,000	3,882,000	0	0	420	41	4	0	412
97			y	0	x	x	0	0	3	3	0	0	3
98			y	0	x	x	0	0	1	1	0	0	1
99			y	0	x	x	0	0	1	1	0	0	1
100			y	0	x	x	0	0					
101			y	0	x	x	0	0	415	36	4	0	407
102	Hoffman, Clinton	1939	290	0	116,000	115,000	0	0	41	40	0	0	41
103			y	0	x	x	0	0	8	8	0	0	8
104			y	0	x	x	0	0	33	32	0	0	33
105	West Centralia, Clinton	1940	10	0	x	x	0	0	1	1	0	0	1
106	Centralia, Clinton, Marion	1937	2,850	0	16,520,000	10,597,000	0	0	898	345	9	3	874
107			y	0	x	x	0	0	22	1	0	0	22
108			y	0	x	x	0	0	557	26	9	1	535
109			2,200	0	9,100,000 <sup>25</sup>	9,100,000 <sup>25</sup>	0	0	317	316	0	1	316
110			20	0	x	x	0	0	2	2	0	1	1
111	Mattoon, Coles	1939 <sup>25</sup>	20	0	9,000	9,000	0	0	2	1	0	0	1
112			10	0	x	x	0	0	1	0	0	0	0
113			10	0	9,000	9,000	0	0	1	1	0	0	1
114	Albion, Edwards	1940	630	0	955,000	955,000	0	0	59	59	0	0	59
115			y	0	x	x	0	0	3	3	0	0	3
116			y	0	x	x	0	0	10	10	0	0	10
117			y	0	x	x	0	0	46	46	0	0	46
118	Cowling, Edwards	1939	100	0	76,000	51,000	0	0	13	2	1	0	12
119	Grayville, Edwards, White	1939	80	0	95,000	66,000	0	0	8	0	3	0	5
120	Mason, Effingham	1940	10	0	9,000	9,000	0	0	1	1	0	0	1
121	Louden, Fayette, Effingham	1937	19,220	0	46,801,000	26,564,000	y	y	1,753	416	9	6	1,736
122			y	0	x	x	y	y	855	223	9	4	840
123			y	0	x	x	y	y	312	28	0	1	311
124			y	0	x	x	y	y	421	0	0	0	421
125									85	85	0	1	84
126									39	39	0	0	39
127									13	13	0	0	13
128									28	28	0	0	28
129	St. James, Fayette	1938	1,830	0	2,213,000	1,719,000	0	0	177	101	1	0	171
130			1,830	0	2,213,000	1,719,000	0	0	176	100	1	0	176
131									1	1	0	0	1
132	Thompsonville, Franklin	1940	210	0	71,000	71,000	0	0	16	16	0	0	16
133	Whittington, Franklin	1939	10	0	11,000	7,000	0	0	1	0	0	0	1
134	Junction, Gallatin	1939	150	0	124,000	100,000	0	0	14	8	0	0	14
135	Inman, Gallatin	1940	40	0	4,000	4,000	0	0	4	4	1	0	3
136			10	0	x	x	0	0	1	1	0	0	1
137			10	0	x	x	0	0	1	1	0	0	1
138			10	0	x	x	0	0	1	1	1	0	0
139			10	0	x	x	0	0	1	1	0	0	1
140	Omaha, Gallatin	1940	10	0	6,000	6,000	0	0	1	1	0	0	1
141	Belle Prairie, Hamilton	1940	10	0	3,000	3,000	0	0	1	1	0	0	1

<sup>23</sup> Total of lines 58 to 87 inclusive.<sup>24</sup> Abandoned 1940.<sup>25</sup> Abandoned 1939, revived 1940.<sup>26</sup> Estimated.



TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. <sup>a</sup>		Repressuring Operation <sup>d</sup>	Character of Oil		Producing Formation							Deepest Zone Tested to End of 1940		
	Flowing	Artificial Lift	Initial	Avg. at End of 1940		Gravity, A.P.I. at 60° F. <sup>b</sup>	Sulphur, Per Cent	Name	Age <sup>e</sup>	Character <sup>f</sup>	Porosity <sup>g</sup>	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure <sup>h</sup>	Name	Depth of Hole, Ft.
												Top Prod. Zone	Bottoms Prod. Wells				
87	0	64	x	x		32.7	0.70	"Trenton"	Ord	L	Por	601	561	50	A	"Trenton"	819
88	0	13,045															
89	0	1	x	x		x	x	Devonian	Dev	L	Por	1,830	1,893	5	D	Devonian	1,893
90	0	24	x	x		36.4	0.20	Bethel	MisU	S	Por	1,008	1,024	11	A	Devonian	2,454
91	0	18													D	MisL	3,100
92	0	2	x	x		x	x	Cypress	MisU	S	Por	2,594	2,614	5			
93	0	1	x	x		37.4	x	Bethel	MisU	S	Por	2,788	2,800	12			
94	0	15	x	x		37.2	0.24	McClosky	MisL	L	Por	2,965	2,978	6			
95	0	0	x	x		35.4	0.25	Aux Vases	MisU	S	Por	2,335	2,351	4	D	MisU	2,383
96	1	411			PM										A	MisL	3,197
97	0	3	x	x		x	x	Cypress	MisU	S	Por	2,603	2,608	14			
98	0	1	x	x		x	x	Bethel	MisU	S	Por	2,866	2,870	5			
99	0	1	x	x		x	x	Aux Vases <sup>27</sup>	MisU	S	Por	2,910	3,000	8			
100			x	x		x	x	Rosiclare	MisL	S	Por	2,970	3,000	6			
101	1	406	x	x		38.5	x	McClosky	MisL	L	Por	2,995	3,058	9			
102	0	41													D	Devonian	2,914
103	0	8	x	x		x	x	Cypress	MisU	S	Por	1,185	1,201	9			
104	0	33	x	x		32.2	0.21	Bethel	MisU	S	Por	1,319	1,324	7			
105	0	1	x	x		x	x	Bethel	MisU	S	Por	1,408	1,415	7		MisU	1,415
106	0	874			PM										A	"Trenton"	4,068
107	0	22	x	150		36.4	x	Cypress	MisU	S	Por	1,200	1,225	19			
108	0	535	250+	50		37.4	x	Bethel	MisU	S	Por	1,355	1,378	23			
109	0	316	x	400		37.4	0.38	Devonian	Dev	L	Por	2,860	2,919	8			
110	0	1	x	x		43.2	0.28	"Trenton"	Ord	L	Por	4,020	4,120	39			
111	0	1													A	St. Peter	4,908
112	0	0	x	x		44.1	0.16	Cypress	MisU	S	Por	1,835	1,919	25			
113	0	1	x	x		36.6	0.29	McClosky	MisL	L	Por	2,000	2,027	6			
114	0	59													A	Devonian	5,185
115	0	3	x	x		x	x	Bridgeport	Pen	S	Por	1,571	1,622	10			
116	0	10	x	x		34.0	x	Waltersburg	MisU	S	Por	2,365	2,373	10			
117	0	46	x	x		40.0	0.18	McClosky	MisL	L	Por	3,108	3,157	11			
118	0	12	x	x		36.6	0.23	Cypress	MisU	S	Por	2,620	2,640	12	D?	MisL	3,175
119	0	5	x	x		35.8	0.31	McClosky	MisL	L	Por	3,093	3,188	6	A	MisL	3,269
120	0	1	x	x		x	x	McClosky	MisL	L	Por	2,491	2,503	12	D	MisL	2,503
121	435	1,301			PM										A	Devonian	3,170
122	169	671	500+	260		36.6	0.25	Cypress	MisU	S	Por	1,493	1,549	25			
123	125	186	x	340		37.8	0.24	Paint Creek Stray	MisU	S	Por	1,546	1,571	17			
124	137	284	575+	350		38.5	x	Bethel	MisU	S	Por	1,540	1,561	18			
125	4	80						Cyp., Stray <sup>27</sup>									
126	0	39						Cyp., Beth. <sup>27</sup>									
127	0	13						Stray, Beth. <sup>27</sup>									
128	0	28						Cyp., Stray, Beth. <sup>27</sup>									
129	0	171													A	Devonian	3,375
130	0	170	x	x		34.4	0.31	Cypress	MisU	S	Por	1,581	1,600	16			
131	0	1						Cypress, Stray <sup>27</sup>									
132	0	16	x	x		37.8	0.16	McClosky	MisL	L	Por	3,121	3,136	12	A	MisL	3,136
133	0	1	x	x		37.6	0.24	McClosky, St. Louis <sup>27</sup>	MisL	L	Por	2,869	2,878	9	D	MisL	3,068
134	0	14	x	x		37.2	0.22	Waltersburg	MisU	S	Por	1,763	1,804	15	D	MisL	2,711
135	0	3													D	MisL	3,007
136	0	1	x	x		x	x	Palestine	MisU	S	Por	1,832	1,854	10			
137	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,082	2,090	4			
138	0	0	x	x		x	x	Rosiclare	MisL	S	Por	2,803	3,007	x			
139	0	1	x	x		x	x	McClosky	MisL	L	Por	2,730	2,742	12			
140	0	1	x	x		25.9	0.23	Palestine	MisU	S	Por	1,672	1,722	32	D	MisL	2,840
141	0	1	x	x		37.0	0.12	McClosky	MisL	L	Por	3,457	3,578	3	D?	MisL	3,578

<sup>27</sup> Wells producing from more than one sand.

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas <sup>b</sup>	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940		End of 1940		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil <sup>c</sup>	Producing Gas <sup>e</sup>
142	Dale, Hamilton.....	1940	550	0	329,000	329,000	0	0	25	25	0	0	25	0
143			y	0	x	x	0	0	23	23	0	0	23	0
144			y	0	x	x	0	0	2	2	0	0	2	0
145	Hoodville, Hamilton....	1940	560	0	344,000	344,000	0	0	52	52	0	0	52	0
146			y	0	x	x	0	0	50	50	0	0	50	0
147			y	0	x	x	0	0	2	2	0	0	2	0
148	Boos, Jasper.....	1940	80	0	143,000	143,000	0	0	4	4	0	0	4	0
149	Hidalgo, Jasper.....	1940	20	0	5,000	5,000	0	0	2	2	0	0	2	0
150	North Boos, Jasper.....	1940	140	0	190,000	190,000	0	0	10	10	0	0	10	0
151	West Liberty, Jasper....	1940	710	0	271,000	271,000	0	0	31	31	0	0	31	0
152	Cravat, Jefferson.....	1939	100	0	77,000	63,000	0	0	11	5	0	0	11	0
153	Dix, Jefferson.....	1938	1,350	0	1,582,000	717,000	0	0	65	8	0	0	65	0
154	Elk Prairie, Jefferson....	1938 <sup>28</sup>	10	0	700	0	0	0	1	0	1	0	0	0
155	Ina, Jefferson.....	1938	10	0	14,000	2,000	0	0	1	0	0	0	1	0
156	Marcoe, Jefferson.....	1938	10	0	12,000	3,000	0	0	2	0	0	0	1	0
157	Roaches, Jefferson.....	1938	120	0	245,000	175,000	0	0	10	1	0	0	10	0
158	Woodlawn, Jefferson....	1940	10	0	x	x	0	0	1	1	0	0	1	0
159	Russellville Gas, Lawrence	1937	0	1,600	0	0	1,955.5	890.4	41	9	0	0	0	41
160			0	20	0	0	y	y	4	0	0	0	0	4
161			0	1,580	0	0	y	y	37	9	0	0	0	37
162	Patoka, Marion.....	1937	740	0	2,078,000	417,000	0	0	117	2	2	0	104	0
163			730	0	x	x	0	0	115	1	2	0	102	0
164			10	0	x	x	0	0	2	1	0	0	2	0
165	Salem, Marion.....	1938	9,060	0	122,756,000	70,136,000	y	y	2,410	829	17	5	2,386	0
166			y	0	x	x	y	y	457	34	0	0	453	0
167			y	0	x	x	y	y	149	8	0	0	149	0
168			y	0	x	x	y	y	550	158	17	1	534	0
169			y	0	x	x	y	y	8	2	0	0	8	0
170			5,000	0	27,600,000 <sup>28</sup>	27,600,000 <sup>28</sup>	y	y	540	533	0	4	536	0
171									471	33	0	0	471	0
172									231	57	0	0	231	0
173									2	2	0	0	2	0
174									1	1	0	0	1	0
175									1	1	0	0	1	0
176	Tonti, Marion.....	1939	350	0	3,469,000	2,560,000	0	0	49	14	1	1	48	0
177			y	0	x	x	0	0	4	0	0	0	4	0
178			y	0	x	x	0	0	10	6	0	0	10	0
179			y	0	x	x	0	0	29	2	1	1	28	0
180			21	0	x	x	0	0	6	6	0	0	6	0
181	Fairman, Marion, Clinton	1939	450	0	231,000	209,000	0	0	16	5	1	0	15	0
182	Raymond, Montgomery...	1940	10	0	500	500	0	0	2	2	1	0	1	0
183	Waggoner, Montgomery...	1940	40	0	1,000	1,000	0	0	4	4	0	0	4	0
184	Dundas, Richland.....	1939	2,160	0	2,298,000	2,062,000	0	0	88	70	0	0	88	0
185			y	0	x	x	0	0	1	1	0	0	1	0
186			y	0	x	x	0	0	87	69	0	0	87	0
187	Noble, Richland.....	1937	3,740	0	9,571,000	2,718,000	0	0	246	26	13	0	225	0
188			y	0	x	x	0	0	72	24	0	0	72	0
189			y	0	x	x	0	0	174	2	13	0	153	0
190	Olney, Richland.....	1937	520	0	962,000	209,000	0	0	37	2	2	0	35	0
191	Schnell, Richland.....	1938	40	0	150,000	22,000	0	0	4	0	0	0	4	0
192	Stewardson, Shelby.....	1939	30	0	11,000	7,000	0	0	3	2	0	0	3	0
193	Griffin, Wabash.....	1939	900	0	1,387,000	1,218,000	0	0	102	55	1	0	101	0
194			y	0	x	x	0	0	13	9	0	0	13	0
195			y	0	x	x	0	0	1	1	0	0	1	0
196			y	0	x	x	0	0	1	1	0	0	1	0
197			y	0	x	x	0	0	71	31	0	0	71	0

<sup>28</sup> Abandoned 1940.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. <sup>4</sup>		Repressuring Operation <sup>d</sup>	Character of Oil		Producing Formation							Deepest Zone Tested to End of 1940		
	Number of Wells		Initial	Avg. at End of 1940		Gravity, A.P.I. at 60°F. <sup>6</sup> Weighted Average	Sulphur, Per Cent	Name	Age <sup>e</sup>	Character <sup>f</sup>	Porosity <sup>g</sup>	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure <sup>h</sup>	Name	Depth of Hole, Ft.
	Flowing	Artificial Lift										Top Prod. Zone	Bottoms Prod. Wells				
142	0	25															
143	0	23	x	x		37.6	0.25	Cypress	MisU	S	Por	2,678	2,708	18	D	MisL	3,257
144	0	2	x	x		x	x	McClosky	MisL	L	Por	3,143	3,185	16			
145	3	49															
146	3	47	x	x		38.0	x	Bethel	MisU	S	Por	2,952	2,975	20	D?	MisL	3,224
147	0	2	x	x		x	x	McClosky	MisL	L	Por	3,146	3,224	14			
148	0	4	x	x		39.6	0.26	McClosky	MisL	L	Por	2,818	2,865	8	A	MisL	2,865
149	0	2	x	x		x	x	McClosky	MisL	L	Por	2,560	2,607	8	N	Devonian	4,139
150	4	6	x	x		38.6	0.20	McClosky	MisL	L	Por	2,791	2,834	12	A	MisL	2,834
151	0	31	x	x		x	x	McClosky	MisL	L	Por	2,788	2,824	10	A	Devonian	4,584
152	0	11	x	x		35.4	0.23	Bethel	MisU	S	Por	2,066	2,076	11	D	MisL	2,356
153	0	65	495 +	350	PM	38.0	0.18	Bethel	MisU	S	Por	1,948	1,959	14	A	Devonian	3,650
154	0	0	x	x		x	x	McClosky	MisL	L	Por	2,718	2,751	7	D	MisL	2,958
155	0	1	x	x		36.4	0.20	St. Louis	MisL	L	Por	3,002	3,007	5	D	MisL	3,064
156	0	1	x	x		23.2	0.54	McClosky	MisL	L	Por	2,746	2,765	11	D	MisL	3,066
157	0	10	x	x		37.0	0.22	McClosky, Rosiclar <sup>27</sup>	MisL	L,S	Por	2,187	2,257	22	D	MisL	2,285
158	0	1	x	x		x	x	Bethel	MisU	S	Por	1,974	1,990	16	D		
159			380 +	x											A	Devonian	3,133
160			x	x				Pennsylvanian	Pen	S	Por	619	831	12			
161			380 +	x				Buchanan	Pen	S	Por	1,708	1,119	10			
162	0	104													A	Devonian	2,956
163	0	102	x	x		39.5	x	Bethel	MisU	S	Por	1,424	1,440	16			
164	0	2	x	x		40.9	0.31	Rosiclar	MisL	S	Por	1,562	1,612	33			
165	74	2,312			PM										A	"Trenton"	4,618
166	0	453	272 +	x		38.5	0.20	Bethel	MisU	S	Por	1,797	1,835	35			
167	1	148	335 +	x		38.6	0.21	Aux Vases	MisU	S	Por	1,813	1,865	28			
168	2	532	700	56		39.0	x	McClosky	MisL	L	Por	1,975	2,048	17			
169	0	8	250 +	x		39.0	x	Salem	MisL	L	Por	2,156	2,222	17			
170	43	493	1,276	381		42.1	0.28	Devonian	Dev	L	Por	3,350	3,444	30			
171	18	453						Beth., Aux Vases <sup>27</sup>									
172	10	221						McClosky, Salem <sup>27</sup>									
173	0	2						Beth., McClosky <sup>27</sup>									
174	0	1						Aux Vases, McClosky <sup>27</sup>									
175	0	1						McClosky, Devonian <sup>27</sup>									
176	1	47													D	Devonian	3,547
177	0	4	x	x		x	x	Bethel	MisU	S	Por	1,928	1,942	14			
178	0	10	x	x		37.0	x	Aux Vases	MisU	S	Por	2,003	2,038	26			
179	0	28	x	x		39.4	0.21	McClosky	MisL	L	Por	2,134	2,165	12			
180	1	5	x	x		x	x	Devonian	Dev	L	Por	3,490	3,505	15			
181	0	15	x	x		38.2	x	Bethel	MisU	S	Por	1,462	1,479	7	D	"Trenton"	4,100
182	0	1	x	x		33.5	x	Pennsylvanian	Pen	S	Por	580	598	18	D	Pen	598
183	0	4	x	x		x	x	Pennsylvanian	Pen	S	Por	611	625	14	D	Devonian	1,784
184	57	31													A	MisL	2,980
185	0	1	x	x		x	x	Cypress	MisU	S	Por	2,570	2,590	23			
186	57	30	1,100 +	x		38.4	0.17	McClosky	MisL	L	Por	2,869	2,920	13			
187	0	225													A	MisL	3,201
188	0	72	x	x		34.6	0.27	Cypress	MisU	S	Por	2,544	2,639	17			
189	0	153	x	x		39.0	x	McClosky	MisL	L	Por	2,957	3,003	10			
190	0	35	x	x		37.2	0.19	McClosky	MisL	L	Por	3,052	3,073	9	A	MisL	3,222
191	0	4	x	x		37.0	0.19	McClosky	MisL	L	Por	3,012	3,068	6	D	MisL	3,120
192	0	3	x	x		37.8	0.18	Aux Vases	MisU	S	Por	1,942	1,969	5	D	MisU	1,969
193	0	101													A	MisL	3,058
194	0	13	x	x		38.0	x	Biehl	Pen	S	Por	1,719	1,728	11			
195	0	1	x	x		x	x	Clore	MisU	S	Por	1,811	1,823	9			
196	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,060	2,135	y			
197	0	71	x	x		38.0	x	Cypress	MisU	S	Por	2,444	2,480	15			

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and or Gas Wells					
			Oil	Gas <sup>b</sup>	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940		End of 1940		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil <sup>c</sup>	Producing Gas <sup>e</sup>
198			y	0	x	x	0	0	2	2	0	0	2	0
199			y	0	x	x	0	0	13	11	0	0	13	0
200	East Keensburg, Wabash	1939	20	0	x	x	0	0	2	2	0	0	2	0
201	Keensburg, Wabash	1939	1,120	0	2,402,000	1,619,000	0	0	160	40	3	0	157	0
202			y	0	x	x	0	0	2	2	0	0	2	0
203			y	0	x	x	0	0	1	1	0	0	1	0
204			y	0	x	x	0	0	4	4	0	0	4	0
205			y	0	x	x	0	0	152	0	3	0	149	0
206									1	1	0	0	1	0
207	Maud, Wabash	1940	130	0	43,000	43,000	0	0	9	9	0	0	9	0
208			y	0	x	x	0	0	1	1	0	0	1	0
209			y	0	x	x	0	0	8	8	0	0	8	0
210	Mt. Carmel, Wabash	1940	730	0	25,000	25,000	0	0	6	6	0	0	6	0
211			y	0	x	x	0	0	5	5	0	0	5	0
212			y	0	x	x	0	0	1	1	0	0	1	0
213	Mt. Carmel (West), Wabash	1939	20	0	x	x	0	0	2	0	1	0	1	0
214	Lancaster, Wabash, Lawrence	1940	320	0	341,000	341,000	0	0	28	28	1	0	27	0
215	Cordes, Washington	1939	1,430	0	1,184,000	716,000	0	0	128	33	1	1	127	0
216	Dubois, Washington	1939	60	0	21,000	19,000	0	0	4	3	0	1	3	0
217	Irvington, Washington	1940	440	0	510,000	510,000	0	0	39	39	0	0	39	0
218			y	0	x	x	0	0	33	33	0	0	33	0
219			y	0	x	x	0	0	6	6	0	0	6	0
220	McKinley, Washington	1940	10	0	4,000	4,000	0	0	1	1	0	0	1	0
221	Barnhill, Wayne	1939	870	0	1,230,000	637,000	0	0	63	22	1	0	62	0
222			y	0	x	x	0	0	2	2	0	0	2	0
223			y	0	x	x	0	0	60	19	1	0	59	0
224			y	0	x	x	0	0	1	1	0	0	1	0
225	Boyleston, Wayne	1938	1,460	0	1,527,000	1,308,000	0	0	83	58	0	0	83	0
226			y	0	x	x	0	0	1	1	0	0	1	0
227			y	0	x	x	0	0	81	56	0	0	81	0
228									1	1	0	0	1	0
229	Cisne, Wayne	1937	960	0	2,240,000	478,000	0	0	47	0	0	0	47	0
230			y	0	x	x	0	0	2	0	0	0	2	0
231			y	0	x	x	0	0	1	0	0	0	1	0
232			y	0	x	x	0	0	44	0	0	0	44	0
233	Enterprise, Wayne	1939	4,370	0	4,144,000	2,876,000	0	0	152	102	1	0	151	0
234			y	0	x	x	0	0	1	0	0	0	1	0
235			y	0	x	x	0	0	2	2	0	0	2	0
236			y	0	x	x	0	0	149	100	1	0	148	0
237	Goldengate, Wayne	1939	30	0	x	x	0	0	3	0	2	0	1	0
238	Leech Twp., Wayne	1938	240	0	232,000	127,000	0	0	14	5	0	0	14	0
239	Mt. Erie, Wayne	1938	10	0	10,000	3,000	0	0	1	0	0	0	1	0
240	North Aden, Wayne	1938	1,100	0	1,935,000	905,000	0	0	65	5	2	0	61	0
241	Rinard, Wayne	1937 <sup>20</sup>	10	0	6,000	800	0	0	1	0	0	0	1	0
242	Roundprairie, Wayne	1940	10	0	x	x	0	0	1	1	0	0	1	0
243	South Mt. Erie, Wayne	1939	10	0	x	x	0	0	1	0	0	0	1	0
244	West Enterprise, Wayne	1940	360	0	105,000	105,000	0	0	13	13	0	0	13	0
245			y	0	x	x	0	0	1	1	0	0	1	0
246			y	0	x	x	0	0	12	12	0	0	12	0
247	Aden, Wayne, Hamilton	1938	360	0	244,000	101,000	0	0	8	3	0	0	8	0
248	Burnt Prairie, White	1940	400	0	146,000	146,000	0	0	18	18	0	0	18	0
249			y	0	x	x	0	0	2	2	0	0	2	0
250			y	0	x	x	0	0	16	16	0	0	16	0
251	Calvin, White	1939	1,360	0	606,000	601,000	0	0	117	115	0	0	117	0
252			y	0	x	x	0	0	7	7	0	0	7	0

<sup>20</sup> Abandoned 1939, revived 1940.



TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. <sup>4</sup>		Character of Oil		Producing Formation							Deepest Zone Tested to End of 1940			
	Number of Wells		Initial	Avg. at End of 1940	Repressuring Operation <sup>d</sup>	Gravity, A.P.I. at 60°F. <sup>3</sup> Weighted Average	Sulphur, Per Cent	Name	Age <sup>e</sup>	Character <sup>f</sup>	Porosity <sup>g</sup>	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure <sup>h</sup>	Name	Depth of Hole, Ft.
	Flowing	Artificial Lift										Top Prod. Zone	Bottoms Prod. Wells				
198	0	2	x	x		x	x	Bethel	MisU	S	Por	2,570	2,576	6			
199	0	13	x	x		37.0	0.38	McClosky	MisL	L	Por	2,793	2,881	13			
200	0	2	x	x		37.6	0.26	McClosky	MisL	L	Por	2,703	2,714	6	D	MisL	2,714
201	0	157													A	MisL	2,880
202	0	2	x	x		x	x	Biehl	Pen	S	Por	1,753	1,764	14			
203	0	1	x	x		x	x	Clore	MisU	S	Por	1,761	1,785	9			
204	0	4	x	x		x	x	Palestine	MisU	S	Por	1,819	1,835	16			
205	0	149	x	x		38.6	0.29	Cypress	MisU	S	Por	2,433	2,454	17			
206	0	1						Biehl, Cypress <sup>27</sup>									
207	0	9															
208	0	1	x	x		x	x	Bethel	MisU	S	Por	2,120	2,132	12	D	MisL	2,634
209	0	8	x	x		38.0	0.30	McClosky	MisL	L	Por	2,614	2,634	8			
210	0	6													A	MisL	2,411
211	0	5	x	x		x	x	Cypress	MisU	S	Por	2,033	2,053	9			
212	0	1	x	x		36.6	0.36	Rosiclare	MisL	S	Por	2,368	2,411	4			
213	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,793	2,881	15	D	MisL	2,556
214	0	27	x	x		39.8	0.28	McClosky	MisL	L	Por	2,683	2,700	9	D	MisL	2,700
215	0	127	x	x		37.4	0.19	Bethel	MisU	S	Por	1,259	1,285	17	A	MisL	1,550
216	0	7	x	x		31.0	0.26	Bethel	MisU	S	Por	1,359	1,370	11	D	MisU	1,370
217	1	38													D	Devonian	3,150
218	0	33	x	x		37.6	0.16	Bethel	MisU	S	Por	1,537	1,550	10			
219	1	5	x	x		39.0	x	Devonian	Dev	L	Por	3,092	3,150	5			
220	0	1	x	x		x	x	Bethel	MisU	S	Por	982	1,039	12	D	Devonian	2,567
221	0	62													A	MisL	3,523
222	0	2	x	x		x	x	{ Rosiclare <sup>27</sup> McClosky	MisL	S	Por	3,340	3,412	5			
223	0	59	x	x		37.6	0.17	McClosky	MisL	L	Por	3,385	3,412	11			
224	0	1	x	x		x	x	Salem	MisL	L	Por	3,792	3,855	y			
225	0	83													A	MisL	3,384
226	0	1	x	x		x	x	Rosiclare	MisL	S	Por	3,273	3,277	4			
227	0	81	50+	x		40.2	0.14	McClosky	MisL	L	Por	3,250	3,277	14			
228	0	1						Rosiclare, McClosky <sup>27</sup>									
229	0	47													A	St. Peter	7,207
230	0	2	x	x		38.5	x	Aux Vases	MisU	S	Por	2,982	3,029	13			
231	0	1	x	x		x	x	Rosiclare	MisL	S	Por	3,010	3,160	y			
232	0	44	75+	x		35.8	0.24	McClosky	MisL	L	Por	3,121	3,178	9			
233	16	135													A	MisL	3,391
234	0	1	x	x		x	x	Aux Vases	MisU	S	Por	2,929	2,957	16			
235	0	2	x	x		x	x	{ Rosiclare <sup>27</sup> McClosky	MisL	S	Por	3,047	3,114	2			
236	16	132	100+	x		x	x	McClosky	MisL	L	Por	3,049	3,114	12			
237	0	1	x	x		34.4	0.18	McClosky	MisL	L	Por	3,377	3,399	7	D	Devonian	5,645
238	0	14	x	x		39.0	0.19	McClosky	MisL	L	Por	3,413	3,453	11	D	MisL	3,485
239	0	1	x	x		39.8	0.18	McClosky	MisL	L	Por	3,080	3,092	y	D	MisL	3,135
240	0	61	40+	x		39.0	0.17	McClosky	MisL	L	Por	3,321	3,341	12	A	Devonian	5,393
241	0	1	x	x		38.5	x	McClosky	MisL	L	Por	3,144	3,154	5	D	MisL	3,154
242	0	1	x	x		x	x	McClosky	MisL	L	Por	3,172	3,300	3	D?	MisL	3,300
243	0	1	x	x		x	x	McClosky	MisL	L	Por	3,129	3,206	11	D	MisL	3,206
244	0	13													A	MisL	3,071
245	0	1	x	x		x	x	Aux Vases	MisU	S	Por	2,915	3,100	10			
246	0	12	x	x		x	x	McClosky	MisL	L	Por	3,018	3,071	7			
247	0	8	x	x		40.0	x	McClosky	MisL	L	Por	3,287	3,337	7	A	MisL	3,460
248	0	18													D	MisL	3,432
249	0	2	x	x		x	x	Rosiclare	MisL	S	Por	3,260	3,404	9			
250	0	16	x	x		37.0	0.28	McClosky	MisL	L	Por	3,425	3,432	11			
251	4	113													A	MisL	2,912
252	0	7	x	x		36.0	0.19	Tar Springs	MisU	S	Por	2,211	2,223	17			

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas <sup>b</sup>	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940		End of 1940		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil <sup>e</sup>	Producing Gas <sup>e</sup>
253			y	0	x	x	0	0	18	18	0	0	18	0
254			y	0	x	x	0	0	6	6	0	0	6	0
255			y	0	x	x	0	0	31	30	0	0	31	0
256			y	0	x	x	0	0	13	13	0	0	13	0
257			y	0	x	x	0	0	12	11	0	0	12	0
258									1	1	0	0	1	0
259									1	1	0	0	1	0
260									23	23	0	0	23	0
261									4	4	0	0	4	0
262									1	1	0	0	1	0
263	Carmi, White	1940	10	0	500	500	0	0	1	1	0	0	1	0
264	Centerville, White	1940	50	0	49,000	49,000	0	0	3	3	0	0	3	0
265	Herald, White	1940	30	0	4,000	4,000	0	0	3	3	0	0	3	0
266			y	0	x	x	0	0	2	2	0	0	2	0
267			y	0	x	x	0	0	1	1	0	0	1	0
268	Iron, White	1940	760	0	1,111,000	1,111,000	0	0	46	46	0	1	45	0
269			y	0	x	x	0	0	1	1	0	0	1	0
270			y	0	x	x	0	0	27	27	0	1	26	0
271			y	0	x	x	0	0	1	1	0	0	1	0
272			y	0	x	x	0	0	17	17	0	0	17	0
273	Mill Shoals, White	1939	640	0	711,000	583,000	0	0	50	28	0	1	49	0
274			y	0	x	x	0	0	33	20	0	0	33	0
275			y	0	x	x	0	0	14	5	0	0	14	0
276									3	3	0	1	2	0
277	New Harmony, White	1939	1,210	0	920,000	920,000	0	0	87	76	1	1	85	0
278			y	0	x	x	0	0	14	4	0	0	14	0
279			y	0	x	x	0	0	2	2	0	0	2	0
280			y	0	x	x	0	0	12	12	0	0	12	0
281			y	0	x	x	0	0	5	5	0	0	5	0
282			y	0	x	x	0	0	1	1	0	0	1	0
283			y	0	x	x	0	0	1	1	0	0	1	0
284			y	0	x	x	0	0	39	38	1	1	37	0
285									2	2	0	0	2	0
286									3	3	0	0	3	0
287									2	2	0	0	2	0
288									1	1	0	0	1	0
289									1	1	0	0	1	0
290									3	3	0	0	3	0
291									1	1	0	0	1	0
292	Phillipstown, White	1939	80	0	61,000	52,000	0	0	6	4	0	0	6	0
293			y	0	x	x	0	0	2	1	0	0	2	0
294			y	0	x	x	0	0	4	3	0	0	4	0
295	Roland, White	1940	10	0	3,000	3,000	0	0	1	1	0	0	1	0
296	Stokes, White	1939	240	0	167,000	107,000	0	0	11	5	0	0	11	0
297	Storms, White	1939	1,400	30	1,548,000	1,517,000	0	0	130	113	0	0	127	3
298	Total for fields after Jan. 1, 1937 <sup>30</sup>		76,410	1,630	255,685,000	142,122,000	1,955.5	890.4	8,095	3,006	83	20	7,901	44
299	Total for Illinois <sup>31</sup>		175,010	17,460	698,696,000	146,788,000	4,340.1	904.2	28,710	3,080	410	367	20,946	51

<sup>30</sup> Total of lines 89 to 297 inclusive.<sup>31</sup> Total of lines 88 and 298.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. <sup>4</sup>		Character of Oil		Producing Formation								Deepest Zone Tested to End of 1940		
	Flowing	Artificial Lift	Initial	Avg. at End of 1940	Repressuring Operations <sup>d</sup>	Gravity, A.P.I. at 60°F. <sup>5</sup> Weighted Average	Sulphur, Per Cent	Name	Age <sup>e</sup>	Character <sup>f</sup>	Porosity <sup>g</sup>	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure <sup>h</sup>	Name	Depth of Hole, Ft.
												Top Prod. Zone	Bottoms Prod. Wells				
253	0	18	x	x		x	x	Cypress	MisU	S	Por	2,590	2,630	18			
254	0	6	x	x		x	x	Paint Creek	MisU	S	Por	2,659	2,705	15			
								Stray									
255	0	31	x	x		36.0	0.24	Bethel	MisU	S	Por	2,684	2,722	12			
256	3	10	x	x		x	x	Aux Vases	MisU	S	Por	2,818	2,838	27			
257	0	12	x	x		x	x	McClosky	MisL	S	Por	2,897	2,912	6			
258	0	1						Cyp., Stray <sup>27</sup>									
259	0	1						Tar Springs, <sup>27</sup>									
								Stray, Bethel									
260	0	23						Stray, Bethel <sup>27</sup>									
261	1	3						Cypress, Stray, <sup>27</sup>									
								Bethel, Aux									
								Vases									
262	0	1						Tar Springs,									
								Bethel <sup>27</sup>									
263	0	1	x	x		x	x	McClosky	MisL	L	Por	3,148	3,167	4	D?	MisL	3,167
264	0	3	x	x		38.0	x	McClosky	MisL	L	Por	3,355	3,373	4	D	MisL	3,373
265	0	3													D?	MisU	2,351
266	0	2	x	x		28.0	x	Pennsylvanian	Pen	S	Por	1,500	1,660	22			
267	0	1	x	x		35.0	x	Tar Springs	MisU	S	Por	2,326	2,351	18			
268	0	45													A	MisL	3,142
269	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,425	2,440	6			
270	0	26	x	x		37.2	0.29	Hardinsburg	MisU	S	Por	2,537	2,550	18			
271	0	1	x	x		x	x	Cypress	MisU	S	Por	2,708	2,753	16			
272	0	17	x	x		38.5	x	McClosky	MisL	L	Por	3,061	3,142	6			
273	0	49															
274	0	33	x	x		39.8	0.14	Aux Vases	MisU	S	Por	3,221	3,290	10	A	MisL	3,316
275	0	14	x	x		38.0	0.16	McClosky	MisL	L	Por	3,316	3,391	14			
276	0	2						Aux Vases,									
								McClosky <sup>27</sup>							A	MisL	2,919
277	4	81				37.6	0.40	Waltersburg	MisU	S	Por	2,156	2,197	43			
278	6	14	820 +	x		38.0	x	Tar Springs	MisU	S	Por	2,225	2,296	20			
279	0	2	x	x		x	x	Cypress	MisU	S	Por	2,561	2,605	24			
280	0	12	x	x		x	x	Bethel	MisU	S	Por	2,684	2,751	18			
281	0	5	x	x		x	x	Aux Vases	MisU	S	Por	2,820	2,840	20			
282	0	1	x	x		x	x	Rosiclar	MisL	S	Por	2,906	2,920	14			
283	0	1	x	x		x	x	McClosky	MisL	L	Por	2,892	2,919	8			
284	4	33	x	x		39.2	0.20	Cyp., Beth., <sup>27</sup>									
285	0	2						McClosky									
								Walt., Cyp.,									
286	0	3						Beth., Aux V.,									
								McClosky <sup>27</sup>									
287	0	2						Cyp., Beth., Aux									
								V., McClosky <sup>27</sup>									
288	0	1						Tar Sp., Cyp.,									
								McClosky <sup>27</sup>									
289	0	1						Walt., Cyp. <sup>27</sup>									
290	0	3						Cyp., Beth. <sup>27</sup>									
291	0	1						Cyp., Beth., Aux									
								Vases <sup>27</sup>									
292	0	6													A	Devonian	5,349
293	0	2	x	x		39.4	x	Aux Vases	MisU	S	Por	2,942	2,964	8			
294	0	4	x	x		38.2	0.21	McClosky	MisL	L	Por	2,955	2,961	10			
295	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,244	2,248	4	D?	MisU	2,248
296	0	11	50 +	x		35.8	0.26	McClosky	MisL	L	Por	3,077	3,124	12	A	MisL	3,150
297	0	127	x	x		32.1	0.28	Waltersburg	MisU	S	Por	2,234	2,285	18	A	MisU	3,089
298	600	7,301															
299	600	20,346															

TABLE 2.—*Summary of Drilling and Initial Production in Illinois for 1940*

County	Number of Wells Drilled in 1940			Total Initial Production		Footage Drilled in 1940	
	Total Com- ple- tions	Total Producing		Oil, Bbl.	Gas, Thou- sands Cu. Ft.	Total	Producing Wells
		Oil	Gas				
Adams.....	1	0	0	0	0	465	0
Alexander.....	1	0	0	0	0	2,019	0
Bond.....	54	26	1	1,932	2,000	74,392	30,670
Brown.....	2	0	0	0	0	1,380	0
Bureau.....	3	0	0	0	0	2,270	0
Cass.....	1	0	0	0	0	1,070	0
Christian.....	1	0	0	0	0	1,330	0
Clark.....	15	5	1	51	10	24,930	7,971
Clay.....	37	23	0	3,066	0	111,212	69,247
Clinton.....	450	369	0	416,641	0	1,130,516	959,806
Coles.....	9	1	0	121	0	19,942	2,027
Crawford.....	13	1	0	12	0	31,548	2,981
Cumberland.....	1	0	0	0	0	710	0
DeKalb.....	1	0	0	0	0	520	0
DeWitt.....	1	0	0	0	0	1,570	0
Douglas.....	2	0	0	0	0	1,245	0
Edgar.....	10	0	0	0	0	7,090	0
Edwards.....	79	62	0	25,863	0	242,954	181,921
Effingham.....	12	3	0	488	0	25,563	5,629
Fayette.....	577	515	0	92,163	0	1,006,255	895,656
Ford.....	1	0	0	0	0	2,225	0
Franklin.....	20	16	0	4,138	0	62,819	50,200
Fulton.....	1	0	0	0	0	815	0
Gallatin.....	24	12	0	770	0	54,249	25,130
Greene.....	1	0	0	0	0	750	0
Hamilton.....	92	78	0	15,340	0	275,545	228,956
Hancock.....	2	1	0	0	0	1,057	372
Henderson.....	1	0	0	0	0	802	0
Henry.....	1	0	0	0	0	725	0
Iroquois.....	1	0	0	0	0	1,485	0
Jackson.....	5	0	0	0	0	10,285	0
Jasper.....	63	47	0	34,660	0	179,161	134,047
Jefferson.....	33	16	0	1,233	0	75,819	32,331
Jersey.....	3	0	0	0	0	4,265	0
Johnson.....	1	0	0	0	0	4,165	0
Knox.....	1	0	0	0	0	1,355	0
Lawrence.....	28	6	9	162	95,321	49,347	23,532
Logan.....	1	0	0	0	0	1,535	0
McDonough.....	9	3	0	2	0	7,737	1,381
Macon.....	4	0	0	0	0	9,524	0
Macoupin.....	9	0	0	0	0	5,394	0
Madison.....	7	0	0	0	0	15,120	0
Marion.....	952	890	0	944,925	0	2,794,599	2,636,964
Massac.....	2	0	0	0	0	5,365	0
Menard.....	1	0	0	0	0	1,063	0
Monroe.....	16	8	0	412	0	13,878	5,106
Montgomery.....	40	6	0	122	0	37,319	4,135
Peoria.....	1	0	0	0	0	1,011	0
Perry.....	8	0	0	0	0	14,866	0
Pike.....	4	0	0	0	0	1,571	0
Pope.....	2	0	0	0	0	3,090	0
Randolph.....	9	1	0	5	0	10,954	938
Richland.....	111	99	1	31,277	5,000	321,696	285,759
St. Clair.....	24	15	0	1,207	0	19,523	8,599
Saline.....	5	0	0	0	0	14,699	0
Schuyler.....	7	0	0	0	0	5,407	0
Scott.....	1	0	0	0	0	935	0
Shelby.....	11	2	0	57	0	23,357	4,102
Tazewell.....	2	0	0	0	0	1,675	0
Wabash.....	202	142	0	23,707	0	497,737	345,826
Washington.....	102	76	0	9,284	0	158,133	117,602
Wayne.....	265	229	0	68,179	0	855,462	728,125
White.....	479	412	4	77,355	70,750	1,325,101	1,133,451
Williamson.....	5	0	0	0	0	10,488	0
Woodford.....	2	0	0	0	0	3,945	0
Total.....	3,829	3,064	16	1,753,171	173,081	9,573,034	7,922,464



## ECONOMIC DATA

On the basis of posted prices, the total value of the oil produced in 1940 was approximately \$158,746,200. The average price calculated from the available data on production and prices for the state was \$1.05 per barrel to Aug. 21 and \$1.15 per barrel for the remainder of the year. Posted prices for Illinois crude oil in 1940 were as shown in Table 3.

TABLE 3.—*Posted Prices for Illinois Crude in 1940*

Beginning Date	Oct. 21, 1939	May 25, 1940	Aug. 1, 1940	Aug. 21, 1940	Dec. 31, 1940
Old fields .....	\$0.95	\$0.95	\$0.95	\$1.00	\$1.00
Central basin fields .....	1.05	1.05	1.05	1.15	1.15
Salem area .....	1.05	1.05	1.05	1.15	1.15
Griffin area .....	0.95	1.00	1.05	1.15	1.15

In 1940, a total of 9,573,034 ft. of hole was drilled in the state. Of this amount 7,922,464 ft. was drilled in producing wells. If an average cost of \$3.00 per foot is assumed, the total investment in drilling was \$28,719,102, including both producing wells and dry holes. The average depth of all wells drilled in the state in 1940 was 2500 ft., which is almost 500 ft. deeper than a year ago. This difference is accounted for in the development of deeper "pays" in proven fields and exploration in the deep basin area.

The average initial daily production of the oil wells was 573 bbl., an increase of 195 bbl. per well over last year's figure. The increase is due to the large Devonian wells in Salem and Centralia fields.

## PIPE LINES AND REFINERIES

Pipe-line construction in Illinois was less extensive in 1940 than in the previous year. The construction of crude-oil lines was principally to provide outlets for the new fields in Wabash, White and Hamilton Counties. It is estimated that the total daily capacity of the crude-oil lines in the state is approximately 550,000 bbl. Pipe-line construction in Illinois during 1940 was as follows:

*Crude Oil*

Illinois Pipe Line Co.—16 miles 8-in., 40 miles 10-in., Enfield, Ill., White County, to Bridgeport, Ill.; 8 miles 10-in. "loop," Sandoval to Patoka.  
 Texas Company.—42 miles 10-in. "loop," Salem field to Heyworth; 38 miles 12-in. "loop," Heyworth to Wilmington.  
 Shell Oil Co., Inc.—6 miles 8-in., Centralia field to Sandoval, Ill.  
 Superior Oil Co.—28 miles 6-in., Albion pool to Mt. Vernon, Ind.  
 Sohio Pipe Line Co.—32 miles 4-in., Dale field to Mt. Vernon, Ind.  
 Gulf Refining Co.—10 miles 6-in. and 8-in., Centralia field to trunk line near Boulder, Ill.  
 Sun Oil Co.—11 miles 6-in., Centerville field to New Harmony field.  
 Hal R. Compton.—35 miles 4-in. outlets to fields in White, Wabash, Edwards Counties.

*Gasoline*

Lawrence Pipe Line Co.—55 miles 6-in. gasoline line Lawrenceville, Ill. to Mt. Vernon, Ind.

*Natural Gas*

Panhandle Eastern Pipeline Co.—28 miles 24-in., 50 miles 22-in., 24 miles 20-in. loops in line across central Illinois.  
 Natural Gas Pipe Line Co. of America.—under construction, 162 miles 20-in. Geneseo, Ill. to Milwaukee, Wis.

Early in 1940 the capacities of most refineries in the state were enlarged in order to handle the increased supply of Illinois crude oil. The Wood River Oil and Refining Co. constructed a new refinery near Wood River, Ill., with a daily capacity of 7500 bbl. This brings the total capacity of all refineries in the state up to 258,750 bbl. daily, an increase of 65,400 bbl. over the capacity a year ago.

Owing to the decline in production during the latter part of 1940, and the increased price of crude oil, eight small refineries having a capacity of 2000 bbl. or less per day, located near the new fields in southern Illinois shut down operations. At the end of the year 21 of the 29 refineries in the state were in operation.

TABLE 4.—Discovery Wells of New Fields and Extensions in Illinois for 1940

Field, County	Company and Farm	Location	Total Depth, Ft.	Producing Formation		Initial Production, Bbl.	Date of Completion of Discovery Well	Number of Wells in Pool, 12-31-40
				Depth to top, Ft.	Name			
Albion, Edwards	Noah & Morrison, Barnes No. 1	SE NE NE 24-2S-10E	3,240	3,130	McClosky limestone	132	3-26-40	55
Barn Hill, Wayne <sup>1</sup>	M. I. O. Corporation, French No. 1	E SE SE 4-3S-8E	3,496	3,491	McClosky limestone	248	10-29-40	63
Bartleson, Clinton <sup>1</sup>	Snell and Goldschmidt, Shafer No. 1	SW NE NW 33-2N-3W	2,535	3,491	Devonian limestone	4	12-3-40	64
Belle Prairie, Hamilton	Kingwood Oil Co., Williams No. 1	C SE NE 3-4S-6E	3,470	2,507	McClosky limestone	50	11-19-40	1
Boos, Jasper	Pure Oil Co., Warren Consolidated No. 1	C E NE NW 33-6N-10E	2,847	2,822	McClosky limestone	348	3-19-40	4
Borleston, Wayne <sup>1</sup>	H. H. Weinert, Inc., C. Bright No. 1	C N NW NE 2-2S-7E	3,340	3,445	McClosky limestone	91	11-12-40	88
Burnt Prairie, White	Bishop, Harrington, Busch, Griffin No. 1	SE SE SW 28-3S-9E	3,505	3,482	McClosky limestone	103	12-3-40	18
Burnt Prairie, White <sup>1</sup>	Hayes and Goad, Goad No. 1	NW SW NW 29-4S-9E	3,486	3,482	McClosky limestone	125	10-8-40	18
Calvin, White <sup>1</sup>	Patton, Reeves No. 1	NW NW SE 28-3S-14W	2,617	2,598	Cypress sandstone	138	12-10-40	118
Centerville, White	Marada Oil Co., Storms No. 1	C SE NW 26-5S-9E	3,167	3,168	McClosky limestone	68	12-10-40	1
Centerville, White	Sun Oil Co., Brown No. 1	NW NW SE 6-6S-7E	2,695	2,662	McClosky limestone	631	5-28-40	1
Dale, Hamilton <sup>1</sup>	Kingwood Oil Co., Wilson No. 1	NW SW NW 31-5S-7E	3,257	3,126	Cypress sandstone	115	3-26-40	25
Dale, Hamilton <sup>1</sup>	Kingwood and Exchange, Prince No. 1	NW SW NE 11-7S-9E	1,516	1,502	McClosky limestone	148	12-3-40	25
Herald, Jasper	Carson Oil Co., Dagley No. 1	SW SW NE 17-8N-10E	2,607	2,536	Pennsylvanian sandstone	55	9-4-40	3
Hoodville, Hamilton	Johnson O. & R. Co., Mendenhall No. 1	SW SE NE 34-3S-6E	3,200	3,189	McClosky limestone	175	9-4-40	3
Inman, Gallatin <sup>1</sup>	Colbeck et al., Morris No. 1	NE NW NE 25-8S-9E	3,007	2,803	Rosclaire sandstone	150	7-16-40	52
Inman, Gallatin <sup>1</sup>	Colbeck, Egyptian T. & T. No. 1	SW NW NE 19-8S-10E	2,742	2,730	McClosky limestone	200	10-8-40	3
Iron, White	H. W. Carter et al., O. Johnson No. 1	SW NW NE 25-6S-8E	2,528	2,485	Hardsburg sandstone	635	2-6-40	46
Irvington, Washington	Mercer Bros., Chapman No. 1	NE NW NE 26-6S-8E	3,077	3,055	McClosky limestone	440	7-30-40	39
Lancaster, White	Gulf Refining Co., Buhl No. 1	C NW SE SW 23-1S-1W	1,538	1,519	Bethel sandstone	683	7-2-40	46
Lancaster, Lawrence <sup>1</sup>	Riddle et al., Seibert No. 1	NE NE NE 4-1N-13W	2,743	2,666	McClosky limestone	500	4-2-40	29
Mason, Effingham	United Drill. & Prod. Co., Farnhoff No. 1	SW NW SE 27-2N-13W	2,721	2,694	McClosky limestone	20	11-19-40	29
Mattson, Coles <sup>1</sup>	Kiptrick, Masc'n Community No. 1	C NE SE NW 22-6N-5E	2,503	2,491	McClosky limestone	376	12-3-40	1
Maud, White	Carter Oil Co., J. Seaman No. 1	SE NE SW 35-12N-7E	2,027	2,002	McClosky limestone	121	6-4-40	1
McKinley, Washington	Lambert, Sieler No. 1	SE SE SE 27-1S-13W	2,626	2,615	McClosky limestone	192	6-18-40	9
McKinley, Washington	DeKalb et al., Hunley No. 3	SW NE NW 29-3S-4W	1,186	982	Bethel sandstone	165	12-17-40	1
McKinley, White <sup>1</sup>	Delta Drilling Co., Utter No. 1	SE SE NE 17-1S-12W	2,050	2,014	Cypress sandstone	19	1-30-40	6
New Harmony, White <sup>1</sup>	Borden, McCallister No. 1	NE SE NE 7-5S-14W	2,911	2,842	Aux. Vases sandstone	130	12-17-40	88
North Boos, Jasper	Pure Oil Co., Bergbower No. 1	C E NE SE 16-6N-10E	2,882	2,880	McClosky limestone	200	7-9-40	9
North Boos, Jasper <sup>1</sup>	Conner and Arnold, Swick No. 1	SE SE NE 17-6N-10E	2,820	2,780	McClosky limestone	746	9-10-40	9
North New Harmony, White <sup>1,3</sup>	Superior, Fitten No. 2	NE NE NE 27-4S-14W	2,296	2,225	Tar Springs sandstone	50	7-16-40	88
Orsha, Callatin	Carter Oil Co., York No. 1	SE SE SW 33-7S-8E	1,722	1,672	Palestine sandstone	275	12-10-40	1
Phillipsdown, White <sup>1</sup>	Neff, Garner No. 1	SW SW SW 36-4S-10E	2,971	2,953	Aux. Vases sandstone	168	10-1-40	6
Raymond, Montgomery	Henderson Bros., Ostermaier No. 1	NW NW NW 30-10N-4W	642	618	Pennsylvanian sandstone	12	2-27-40	1
Raymond, Montgomery <sup>1</sup>	Gulf Refining Co., Moore No. 1	C N SE SE 12-10N-5W	598	580	Pennsylvanian sandstone	25	12-3-40	1
Roland, White	Kingwood, Martin No. 1	NW SW NE 13-7S-8E	2,248	2,244	Tar Springs sandstone	36	7-2-40	1
Round Prairie, Wayne	Lessing, Aich, Lickey No. 1	C SE NE SE 3-1S-6E	3,300	3,172	McClosky limestone	10	6-18-40	1
Storms, White <sup>1</sup>	Gates and Lichley, And No. 1	NE NE SW 27-6S-9E	2,764	2,764	Waltersburg sandstone	3 <sup>2</sup>	1-16-40	130 <sup>1</sup>
Thompsonville, Franklin	Manley Oil Co., Downen No. 1	SW SW SW 26-7S-4E	3,118	3,102	McClosky limestone	800	10-1-40	16
Tonti, Marion <sup>1</sup>	Texas Company, Chance No. 1	NW NW SW 4-2N-2E	2,235	2,154	McClosky limestone	24	10-15-40	53
Wagoner, Montgomery	Randall, Street No. 1	SW SW NE 31-11N-5W	625	615	Pennsylvanian sandstone	28	7-30-40	4
West Centralia, Clinton	Sistler, Phoenix No. 1	NW NW SW 14-1N-1W	1,415	1,408	Bethel sandstone	25	10-1-40	1
West Enterprise, Wayne	Pure Oil Co., Mackin No. 1	E NW NW 1-1N-7E	3,036	3,011	McClosky limestone	664	7-9-40	15
West Liberty, Jasper	Pure Oil Co., M. Aldridge No. 1	C E NE NW 17-5N-10E	2,850	2,750	McClosky limestone	1,422	6-4-40	32
West Liberty, Jasper <sup>1</sup>	Shack, Payne Heirs No. 1	C S NE NE 5-SN-10E	2,808	2,770	McClosky limestone	789	11-26-40	32
Woburn, Bond	National Refining Co., Spindler No. 1	NW NW NW 10-6N-2W	1,021	1,000	Bethel sandstone	209	8-13-40	24
Woodlawn, Jefferson	Obering and Phillips, Howe No. 1	NE SW SW 25-2S-1P	1,000	1,074	Bethel sandstone	60	12-10-40	1

<sup>1</sup> Extension.<sup>2</sup> Gas, millions cubic feet.<sup>3</sup> Formerly considered a new pool; now classed as extension to New Harmony pool.<sup>4</sup> Includes three gas wells.

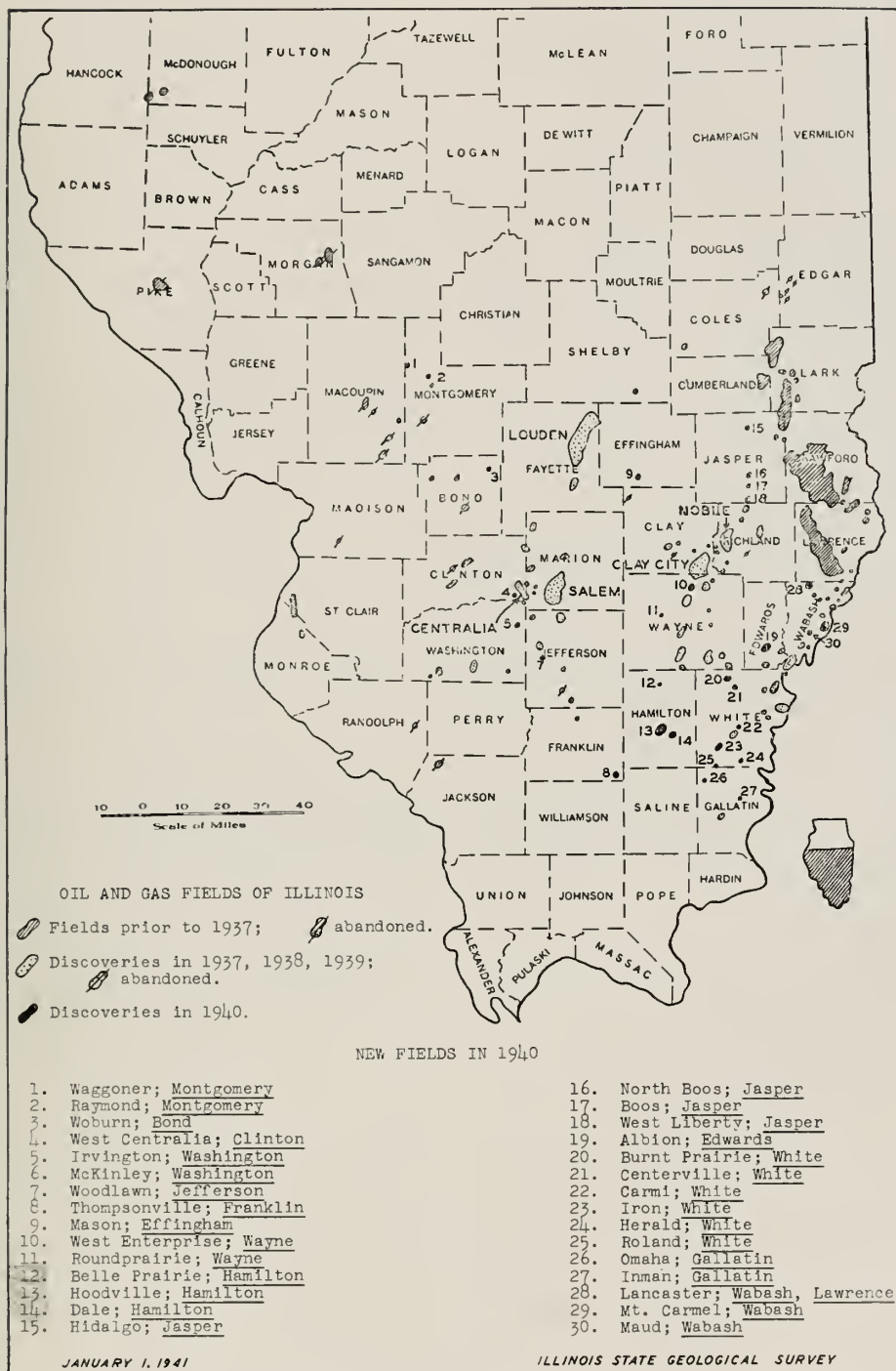


FIG. 2.—OIL AND GAS FIELDS OF ILLINOIS, LISTING THE DISCOVERIES IN 1940.

TABLE 5.—*Important Deep Tests in Illinois in 1940*

County	Pool or Wildcat	Location	Company	Farm No.	Total 1 enth. Ft.	Deepest Formation Tested	Top. Ft.	Re- marks	Date Com- pleted
Clinton	Centralia	NW NE NE 13-1N-1W	Borton	Storer 1	4 120	"Trenton"	4,012	100 bbl.	12-3-40
Clinton	Carlyle	SE NE SE 3-2N-3W	Schwarz	Schlaflay 1	4 070 PB 4 120	St. Peter	4,106	Dry	1-7-41
Clinton	Centralia	SW NE SE 12-1N-1W	Ames	Hicks 2	4,068	"Trenton"	4,018	120 bbl.	7-2-40
Clinton	Wildcat	NE NE SW 17-3N-4W	Tatum	Schrage 1	3,549	St. Peter	3,516	Dry	7-16-40
Clinton	Wildcat	SW SE SE 33-2N-4W	Trumbell	Peters 1	3,305	"Trenton"	3,210	Dry	7-23-40
Coles	Mattoon	NW NE SW 35-42N-7E	Carter	Seaman 1	4,908	St. Peter	4,689	Dry	5-14-40
Edwards	Albion	NW NE SW 19-2S-11E	Superior Oil	Green 1	5,185	Devonian	4,907	Dry	7-9-40
Edwards	Wildcat	SE SE NE 36-2S-10E	Superior Oil	Scott 1	5,196	Devonian	4,951	Dry	8-27-40
Jackson	Wildcat	SW SE SE 35-8S-5W	Trumbell	Bennett 1	2,950	"Trenton"	2,755	Dry	9-24-40
Jackson	Wildcat	SW SW SW 32-10S-3W	Manellin	Baysinger 1	2,294	St. Peter	2,288	Dry	9-20-40
Jackson	Wildcat	SE SE NE 7-8S-3W	Magnolia Petr.	Smith 1	3,893	"Trenton"	3,705	Dry	12-31-40
Jasper	West Liberty	C ½ NW NW 16-5N-10E	Pure Oil	Redman 1	4,584	Devonian	4,316	Dry	7-9-40
Marion	Sandoval	SW SE SW 4-2N-1E	Martin	Robinson 1	5,023	St. Peter	4,978	Dry	1-14-41
Marion	Salem	SW NE SW 29-2N-2E	P. Ross	Brooks 8	4,618	"Trenton"	4,505	130 bbl.	2-4-41
Marion	Fairman	C ½ NE NW 18-3N-1E	Shell Oil	Ververs 6-C	4,100	"Trenton"	3,927	Dry	10-29-40
Marion	Patoka	NE NE SW 28-4N-1E	Jones et al.	Majonnier 2	2,956	Devonian	2,886	Dry	3-5-40
Monroe	Wildcat	SE SW SE 19-1S-10W	Hoffer	Boyer 2	2,270	Cambrian	2,200	Dry	8-13-40
Randolph	Wildcat	SW NW SW 16-7S-7W	Anderson	Cassoutt 1	1,698	"Trenton"	1,555	Dry	8-13-40
Wayne	Cisne	C E ½ SE NE 27-1N-7E	Pure Oil	Billington 3	7,207	St. Peter	7,114	Dry	5-14-40
Wayne	N. Aden	SW NW SW 33-2S-7E	Rockhill	Twist A-7	5,393	Devonian	5,135	Dry	8-6-40
White	Phillipstown	C W ½ NW NW 31-4S-11E	Phillips Petr.	Garr 1	5,349	Devonian	4,885	Dry	5-14-40
White	Wildcat	NW SW NE 13-7S-8E	Kingwood	Martin 1	5,225	Devonian	4,888	Dry	7-2-40



During the year, 79.5 per cent of Illinois' crude-oil production was sent to refineries in the Central refining district (Illinois, Indiana, Kentucky, Michigan, and western Ohio), 16.0 per cent to the Appalachian refining district (eastern Ohio, western New York, western Pennsylvania, and West Virginia), and 4.5 per cent to the Atlantic seaboard. For December 1940 the runs to stills in the Central and Appalachian refining districts were 23,196,000 bbl. Of this amount, Illinois production was 44.7 per cent. Stocks of crude petroleum on hand in Illinois on Dec. 31, 1940, were 13,944,000 bbl., as compared with 12,983,000 bbl. on Dec. 31, 1939. Stocks of refined products in the Central and Appalachian refining districts compared with the previous year are as follows:

Product	Dec. 31, 1940, Bbl.	Dec. 31, 1939, Bbl.
Gasoline.....	19,305,000	17,465,000
Gas oil and distillate fuel.....	9,665,000	4,759,000
Residual fuel oil.....	3,248,000	3,514,000

#### PRODUCTION OF NATURAL GAS

Natural gas was marketed from the Ayers and Russellville gas fields and the Salem and Loudon oil fields during 1940. The Ayers gas field, in Bond County, produced 13,777,300 cu. ft. of gas in 1940, which brings the total production from the field to 194,403,400 cu. ft. Production is at an average depth of 940 ft. from the Aux Vases sandstone of the Chester series. The field has a productive area of 325 acres and the average thickness of the "pay" is 5 ft. Seven wells are producing, none of which was new in 1940. They supply gas to the city of Greenville, Illinois.

Continued development during 1940 in the Russellville gas field in northeastern Lawrence County increased the productive acreage to 1600 acres, which is 680 acres more than a year ago. As of Jan. 1, 1941, there were 41 producing wells in the field. Production is from the Buchanan sand of lower Pennsylvanian age, which is encountered at a depth of 1090 ft. The average thickness of the "pay" is 10 ft. The total production for the field to the end of 1940 was 1,955,500,000 cu. ft., 890,400,000 cu. ft. being produced in 1940.

TABLE 6.—*Illinois Completions and Production Since Jan. 1, 1936*

Date	Number of Completions	Number of Producing Wells	Production, <sup>1</sup> Thousands Bbl.		
			New Fields	Old Fields <sup>2</sup>	Total
1936.....	92	52			4,445
1937.....	449	292	2,884	4,542	7,426
1938.....	2,541	2,010	19,771	4,304	24,075
1939.....	3,675	2,970	90,908	4,004	94,912
1940:					
Jan.....	234	183	11,172	328	11,500
Feb.....	306	268	11,372	355	11,727
March.....	281	242	13,244	336	13,580
Apr.....	286	254	12,564	347	12,911
May.....	399	342	13,427	406	13,833
June.....	391	338	14,793	401	15,194
July.....	341	251	13,381	424	13,805
Aug.....	414	313	11,640	435	12,075
Sept.....	333	262	10,520	405	10,925
Oct.....	280	213	10,365	430	10,795
Nov.....	328	245	9,702	387	10,089
Dec.....	236	169	9,957	397	10,354
	3,829	3,080	142,137	4,651	146,788

<sup>1</sup> The figures for total production are from the U. S. Bureau of Mines; other figures are from various sources.  
<sup>2</sup> Includes Devonian production at Sandoval and Bartelso.

Natural-gas production for 1940 in the Loudon field is estimated to be approximately 11 billion cu. ft. The average daily production in December 1940 was estimated to be 28,000,000 cu. ft. Of this amount 10,000,000 cu. ft. of gas was processed in the Carter Oil Company's two natural-gasoline plants. There is a shrinkage of 2,800,000 cu. ft. of gas in the plants, which is accounted for in the natural gasoline, butane, and propane produced and in fuel for plant operation. The total yield of natural-gasoline butane and propane is approximately 3.2 gal. per thousand cubic feet of "wet" gas. Two and one-half million cubic feet of the "dry" residue gas was injected daily into the producing sands through 63 input wells.

The Town of St. Elmo, Ill. and local industries are supplied by the Monarch Gas Co. with this residue gas from the natural-gasoline plants and from a lease in the field that is producing "dry" gas from a basal Pennsylvanian sandstone, encountered at a depth of 1071 ft. The amount of residue gas marketed during 1940 was 215,376,000 cu. ft. and the amount of gas marketed from the lease was 13,575,000 cu. ft. The Monarch Gas Co. constructed a pipe line to Brownstown, Ill., to supply the town with natural gas starting about Jan. 1, 1941.

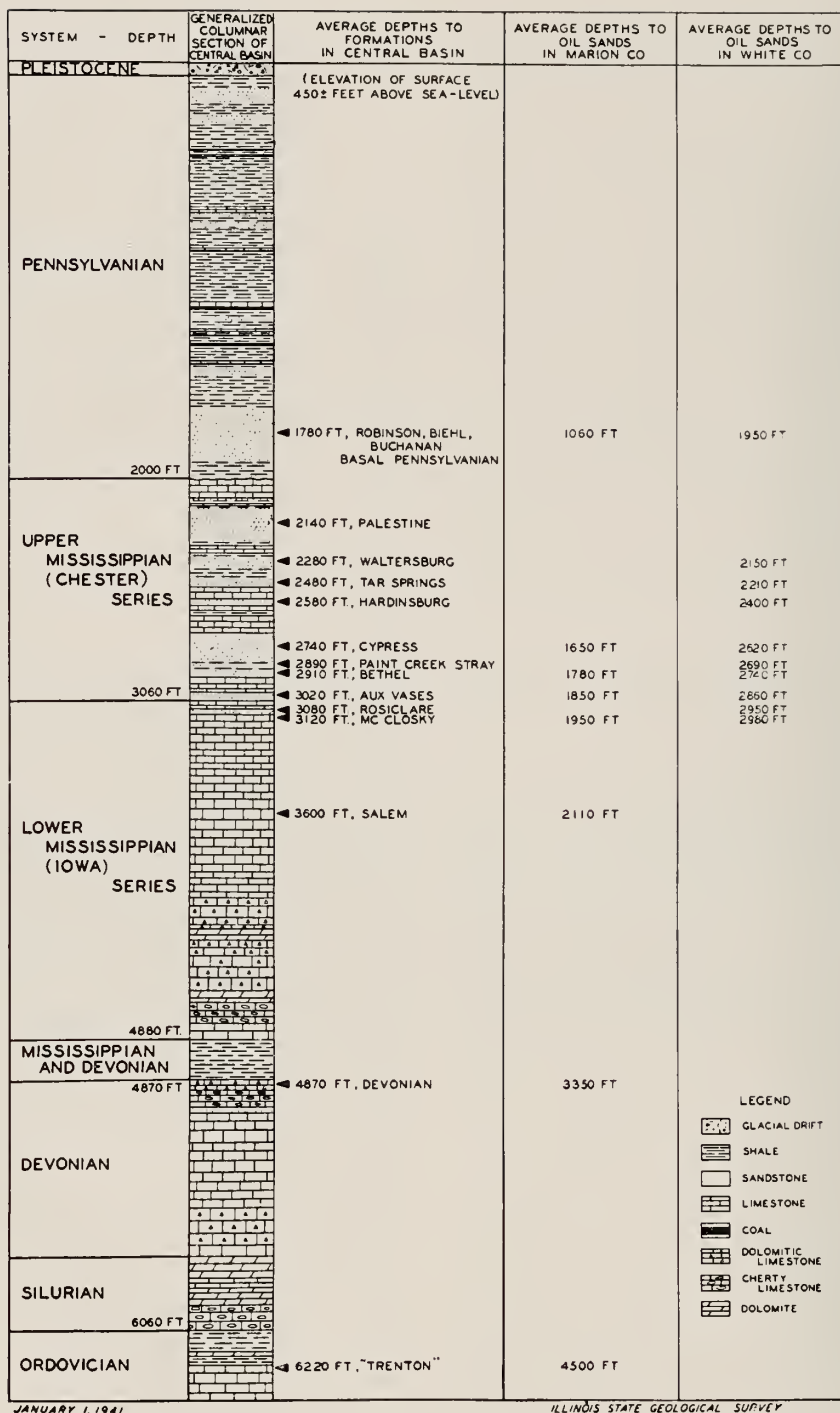


FIG. 3.—ROCK SERIES AND OIL-PRODUCING STRATA IN ILLINOIS BASIN AREA.

In the Loudon field during December 1940, approximately three million cubic feet of "wet" gas was used daily in field operations and the remaining 15,000,000 cu. ft. was burned in flares.

The production of natural gas with the oil in the Salem field for 1940 is estimated to be 71 billion cu. ft. The average daily production for December is estimated to be 117,000,000 cu. ft. Of this amount 52 million cu. ft. of gas was processed daily in the three natural-gasoline plants in the field. The plants are owned and operated by the Texas Company, Warren Petroleum Co., and the Sunflower Natural Gasoline Co. The total yield of natural gasoline, butane, and propane is approximately 2.6 gal. per thousand cubic feet of "wet" gas.

The city of Salem, Ill., is using residue gas from the Sunflower Natural Gasoline Company's plant and the Warren Petroleum Company's natural-gasoline plant in the Salem field. The city began to use the gas about Oct. 1, 1940, and is taking approximately 350,000 cu. ft. daily.

A small amount of the gas produced in the field is used in field operations and the remainder of the "wet" gas and the "dry" gas not marketed or returned to the producing formation is burned in flares.

Natural-gas production in the Centralia field during 1940, which was principally from the Devonian limestone, was estimated to be approximately 10 billion cu. ft. Gas production in the field was greatest during the development of the Devonian limestone early in 1940, when the gas-oil ratio was 2000 cu. ft. per barrel. During December 1940, it was estimated that the gas production was approximately 4,000,000 cu. ft. daily. Natural gas from the Devonian limestone is used in repressuring the Cypress and Bethel sandstones on two leases in the field. In three input wells 100,000 cu. ft. of gas daily is injected in the Bethel sandstone and 60,000 cu. ft. of gas is injected daily in the Cypress sandstone through one input well.

The total volume of gas produced in the Storms field, White County, during 1940 was estimated to be approximately 22 billion cu. ft. The daily production during December was estimated to be 18,000,000 cu. ft. This is a considerable decrease from the beginning of the year, when the production was estimated to be

100,000,000 cu. ft. daily. As of Jan. 1, 1940, there were 130 producing wells in the field, three of which were strictly gas wells that were shut in. The initial production of gas produced with the oil in some wells completed in the field during 1940 was as much as 30,000,000 cu. ft. daily. As yet no gas has been marketed from the field.

Gas production in the Central basin fields in Jasper, Richland, Clay, Wayne, and Northwestern White Counties has declined during 1940, particularly in the older fields such as Clay City and Noble. The total gas production during 1940 for this area is estimated to be approximately 16 billion cu. ft. with a daily production of approximately 45,000,000 cu. ft. None of the gas is marketed, but much is used in lease operations and heat treatment of the oil.

Natural gas was discovered in the W. N. Lee et al.-Thomas Sharf No. 1, C. NW $\frac{1}{4}$  SW $\frac{1}{4}$  SE $\frac{1}{4}$  sec. 27, T.7 N., R.4 W., Bond County, on the Panama dome, which is a structure mapped on coal No. 6.<sup>1</sup> The gas sand, which is of lower Pennsylvanian age, was found at a depth of from 555 to 595 ft. The initial production of the well was 500,000 cu. ft. A well was drilled offsetting the Sharf No. 1, which had an estimated initial production of 1,000,000 cu. ft. More wells are to be drilled in the area in an attempt to obtain a sufficient supply of gas for marketing.

#### NATURAL GASOLINE

Natural gasoline is produced at some 46 plants in the old southeastern field, at three plants in the Salem field and at two plants in the Loudon field. According to the U. S. Bureau of Mines,<sup>2</sup> Illinois produced 21,432,000 gal. of natural gasoline in 1940. In January, the amount was 998,000 gal.; the other months ran from 1,062,000 to 3,461,000 (December). Statistics on the production of propane and butane in 1940 are not yet available.

#### EXPLORATION METHODS

Subsurface geology and geophysics, largely the reflection seismograph, are still the principal methods used in guiding exploration and development. Most of the

<sup>1</sup> A. H. Bell: The Sorento Dome, Ill. Geol. Survey Illinois Petroleum No. 6, p. 7, fig. 2, 1925.

<sup>2</sup> G. R. Hopkins, personal communication, April 3, 1941



seismograph activity during 1940 was in southern Illinois in White, Hamilton, Franklin, Williamson, Saline and Gallatin Counties. The number of seismograph parties operating in the state throughout the year was as follows:

Date	Number of Parties	Date	Number of Parties
Jan. 1, 1940.....	7	Oct. 1, 1940.....	9
Apr. 1.....	13	Jan. 1, 1941.....	7
July 1.....	11		

Gravimeter exploration was conducted by at least three major companies during the year and a number of magnetometer surveys were made in the Illinois basin.

Several companies and individuals have employed geochemical and electrical exploration methods in many areas of southern Illinois. The exploration work was done principally by four companies with district representatives in the state. These methods have been used for both reconnaissance and detail studies.

#### DEEP TESTS DURING 1940 (TABLE 5)

The St. Peter sandstone was tested in the Carlyle, Mattoon, Sandoval and Cisne fields but was not found productive. In the Carter Oil Company's Seaman No. 1 well in the Mattoon field, there was a show of oil at a depth of 4690 ft. in the Glenwood sandstone overlying the St. Peter sandstone. No shows of oil were reported below the McClosky limestone in the Pure Oil Company's Stella Billington No. 3, drilled in the Cisne pool. This well, which is the deepest well drilled in the state to date, was abandoned at a depth of 7207 ft. The top of the St. Peter sandstone was encountered at a depth of 7114 ft. The sandstone was so hard and "tight" that many drilling bits were used in the thickness penetrated.

Another St. Peter test of considerable interest was the Texas Company's Tate No. 21 well in the Salem pool, which was completed early in 1941. The total depth of the well was 5655 ft., 405 ft. below the top of the St. Peter sandstone, which was reached at a depth of 5250 ft. The St. Peter was found to be 167 ft. thick. No shows were reported below the "Trenton" limestone.

The "Trenton" limestone was tested in the Fairman, Centralia and Salem fields and was found productive in the last two mentioned. Production from this formation was small in the Centralia pool but was somewhat better in the Salem pool.

The Devonian limestone was tested in Albion, West Liberty, Patoka, North Aden and Phillipstown fields, but it was not productive.

There is a revived interest in the possibility of deeper production in the old Allendale field in northeastern Wabash County. Early in 1941 a well was completed in the Bethel sandstone at a depth of 2,011 feet which had an initial production of 250 barrels on pump. The well was drilled in one of the areas recommended for deeper testing by the Illinois Geological Survey.<sup>3</sup> Other wells have since been completed in the Bethel sandstone in this area.

#### SECONDARY RECOVERY

*Repressuring.*—Repressuring of the Bethel and Aux Vases sandstones of the Chester series and the McClosky limestone of the lower Mississippian system in the Salem field was continued by the Texas Company. At the end of the year about 2.5 million cu. ft. of "dry" gas daily was being injected into 32 gas-input wells. Thirteen new input wells were drilled in 1940 and eight formerly producing wells were changed to gas-input wells.

Additional gas-input wells were drilled by the Carter Oil Co. for its repressuring project in the Loudon field during 1940. On Dec. 31, 1940, there were 63 input wells in operation in the Cypress, Paint Creek "Stray" and Bethel sandstones of the Chester series. The total daily amount of "dry" gas returned to the producing formations was 2.5 million cubic feet.

Repressuring of the Cypress and Bethel sandstones in the northern part of the Centralia field was begun during the latter part of 1940. One input well was drilled to the Cypress sandstone on one lease and 60,000 cu. ft. of gas from the Devonian limestone is injected daily into the formation. Three input wells were drilled to the Bethel sandstone on another lease and 100,000 cu. ft. of gas is injected daily

<sup>3</sup> G. F. Moulton: Deeper Production in the Allendale Oil Field, Ill. Geol. Survey, Illinois Petroleum No. 12 p. 16, fig. 2, 1927



into this formation. An increase in gas volume and some increase in oil production was obtained in the wells on the lease.

*Water-flooding.*—Water-flooding of the McClosky limestone by the Pure Oil Co. on the B. Travis lease, sec. 33, T. 3 N., R. 8 E., Clay County, was discontinued early in 1940. Another project was started in March 1940 on the T. H. Tetrick lease, sec. 9, T. 2 N., R. 8 E., Clay County, by the same company. The experiment was conducted until October 1940, during which time 225,000 bbl. of water was injected into the McClosky limestone. Both experiments were discontinued because of

the inconclusive and conflicting evidence regarding the effects upon production.

During 1940 there was little change in repressuring or water-flooding operations in the old southeastern Illinois field or in the old fields of western and southwestern Illinois.

#### ACKNOWLEDGMENTS

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TABLE 7.—WILDCAT WELLS DRILLED IN 1940

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
1	Adams	13	1 N	9 W	465	"Niagara"	Menne et al, H. Summers 1	Dry
2	Alexander	35	15 S	2 W	2,019	St. Peter	Arnold & Middleton, Hodges 1	Dry
3	Bond	21	6 N	4 W	1,874	Devonian	Bond Oil Co., Fogel 1	Dry
4	Bond	28	6 N	4 W	1,450	Mississippian	R. E. Jones, Huber 1	Dry
5	Bond	29	7 N	4 W	1,965	Devonian	Paul Harr—F. F. Thacker 1	Dry
6	Bond	28	6 N	4 W	1,882	Devonian	Central States et al, L. Rich 1	Dry
7	Bond	22	5 N	3 W	2,369	Devonian	Seaboard Oil Co., O. Tremblar 1	Dry
8	Bond	16	5 N	2 W	2,565	Devonian	Dickerson et al, 5 tank 1	Dry
9	Bond	29	5 N	2 W	2,547	Devonian	W. F. Lacy, Cartmell 1	Dry
10	Bond	22	6 N	2 W	2,458	Devonian	Swan-King, Dr. Prown 1	Dry
11	Bond	26	7 N	4 W	605	Pennsylvanian	Smith, Desborough 1	Dry
12	Bond	27	7 N	4 W	2,012	Devonian-Silurian	W. N. Lee et al—Thomas Sharf 1	Dry
13	Bond	19	4 N	2 W	2,574	Devonian	W. H. Dickerson, Wise 1	Dry
14	Bond	2	6 N	2 W	1,053	Bethel	M. Pray, Buchanan 1	Dry
15	Bond	33	7 N	2 W	1,178	Bethel	Arrow Drilling Co., Snow 1	Dry
16	Bond	3	6 N	2 W	1,110	Ste. Genevieve	Arrow Drilling Co., Stoneburner 1	Dry
17	Bond	30	6 N	3 W	2,181	Devonian	Kingwood Oil Co., Gaffner, 1	Dry
18	Bond	18	5 N	3 W	2,290	Devonian	Kingwood Oil Co., Hentz 1	Dry
19	Bond	28	6 N	4 W	1,971	Devonian	Central States, G. Rich 1	Dry
20	Bond	27	7 N	4 W	612	Pennsylvanian	Miller, McCario 1	Dry
21	Bond	18	6 N	2 W	710	Chester	W. N. Lee—Robinson 1	Dry
22	Bond	21	6 N	2 W	1,181	St. Louis	Shell Oil Co., Dunnigan 1	Dry
23	Bond	26	6 N	4 W	1,278	Lindley	Brainerd, Lindley 1	Dry
24	Bond	25	4 N	3 W	1,155	Bethel	Paul Holleman, C. Basler 1	Dry
25	Bond	7	5 N	2 W	2,565	Devonian	J. B. Barnes, Warts 1	Dry
26	Bond	28	5 N	4 W	940	Bethel	J. Harding, Gottfried 1	Dry
27	Bond	9	6 N	2 W	1,060	Aux Vases	Bragassa, G. K. Hughey 1	Dry
28	Bond	10	6 N	2 W	1,021	Bethel	National Refining Co.—Spindler 1	Prod.*
29	Brown	7	2 S	3 W	730	"Niagara"	E. M. Coleman, S. Newenham 1	Dry
30	Brown	32	2 S	4 W	650	"Trenton"	Buchl, H. Doame 1	Dry
31	Bureau	24	15 N	9 E	1,050	Maquoketa	Harrington Fros., Miller 1	Dry
32	Bureau	24	18 N	8 E	720	Silurian	Kerchner et al—Guthrie 1	Dry
33	Bureau	2	18 N	8 E	500	Silurian	F. E. Webb, Abrahams 1	Dry
34	Cass	2	17 N	10 W	1,070	Devonian	Cass Comm. Oil Co., J. Maslin 1	Dry
35	Christian	7	13 N	1 E	1,330	Fredonia	Moore et al, Meyers 1	Dry
36	Clark	4	8 N	11 W	2,803	"Niagara"	H. R. Snaveley, S. Freeman 1	Dry

37	Clark	3	10 N	11 W	2,479	Devonian	Ohio Oil Co.—A. Davidson 1	Dry
38	Clay	28	4 N	7 E	3,105	Ste. Genevieve	Benedum and Trees, Hagan 1	Dry
39	Clay	27	5 N	5 E	2,504	Ste. Genevieve	W. C. McBride, Landreth 1	Dry
40	Clay	14	2 N	7 E	3,207	Ste. Genevieve	Kingwood Oil Co., Neff 1	Dry
41	Clay	6	4 N	5 E	4,296	Devonian	A. R. Madden, Sloan 1	Dry
42	Clay	5	5 N	5 E	2,723	Ste. Genevieve	Kingwood Oil Co., Dank 1	Dry
43	Clay	22	5 N	5 E	2,570	St. Louis	W. C. McBride, Inc., Smith 1	Dry
44	Clay	16	3 N	7 E	2,980	Ste. Genevieve	Shulman, G. F. Hardy 1	Dry
45	Clay	14	5 N	7 E	2,955	St. Louis	Kingwood Oil Co., Wolfe 1	Dry
46	Clay	20	4 N	6 E	2,926	St. Louis	Lagall Oil Co., Huffman 1	Dry
47	Clay	10	3 N	7 E	2,602	Cypress	Schuman Bros., L. Dehart 1	Dry
48	Clay	15	3 N	7 E	3,033	St. Louis	Dee Miller, Smith 1	Dry
49	Clinton	1	3 N	1 W	1,722	McClosky	N. L. Murphy, Sharp 1	Dry
50	Clinton	28	2 N	1 W	1,460	Pethel	L. C. Tharpe, R. Merten 1	Dry
51	Clinton	23	3 N	1 W	1,537	Aux Vases	Hubbard, Ducomb 1	Dry
52	Clinton	3	1 N	2 W	1,326	Bethel	Thompson et al, Frantborst 1	Dry
53	Clinton	35	2 N	2 W	1,380	Bethel	O. W. Burroughs, F. Klein 1	Dry
54	Clinton	32	3 N	4 W	1,164	Weiler	H. J. Brown et al, Thole 1	Dry
55	Clinton	15	2 N	4 W	2,440	Silurian	W. S. Tatam, Voss 1	Dry
56	Clinton	36	3 N	1 W	1,554	Bethel	Benoist et al, Huber 1	Dry
57	Clinton	30	3 N	2 W	2,095	Devonian	L. V. Garnier, A. Tony 1	Dry
58	Clinton	3	1 N	1 W	2,957	Devonian	B. Fields, S. Prather 1	Dry
59	Clinton	1	1 N	2 W	1,370	Pethel	Yagers & Brown, Steffens 1	Dry
60	Clinton	21	1 N	3 W	2,816	Devonian	Williams, Bach 1	Dry
61	Clinton	1	1 N	3 W	2,657	Devonian	Fields, Zachary 1	Dry
62	Clinton	20	1 N	3 W	1,267	Ste. Genevieve	Schiemann et al, F. Huelsmann 1	Dry
63	Clinton	12	1 N	5 W	1,033	Aux Vases	Matches, G. Nettemeyer 1	Dry
64	Clinton	25	2 N	1 W	2,950	Devonian	Magnolia Petroleum Co., Woolenweber 1	Dry
65	Clinton	26	2 N	1 W	2,093	Devonian	McKee, Lippert 1	Dry
66	Clinton	27	2 N	1 W	2,973	Devonian	E. F. Jones, Lippert 1	Dry
67	Clinton	34	2 N	1 W	2,968	Devonian	Union Producing Co., Hood 1	Dry
68	Clinton	36	2 N	1 W	2,936	Devonian	M. Pray, F. X. Stein 1	Dry
69	Clinton	13	2 N	2 W	1,385	Bethel	DeKalb Syndicate, Hankie 1	Dry
70	Clinton	27	2 N	2 W	3,018	Devonian	A. W. Gerson, Hodapp 1	Dry
71	Clinton	9	2 N	3 W	1,034	Cypress	F. Coester, J. Rohr 1	Dry
72	Clinton	11	2 N	3 W	2,705	Devonian	Southern Petroleum Co., Deters 1	Dry
73	Clinton	22	2 N	3 W	2,730	Devonian	M. C. Trumbell et al, H. Ackman 1	Dry
74	Clinton	33	2 N	4 W	3,305	"Trenton"	M. C. Trumbell et al, G. Peters 1	Dry
75	Clinton	17	3 N	4 W	3,549	St. Peter	W. S. Tatam, F. Schrage 1	Dry
76	Clinton	3	1 N	2 W	1,330	Bethel	Ford, Brink 1	Dry
77	Clinton	10	2 N	1 W	3,053	Devonian	Hughes Petroleum Co., Hohman 1	Dry
78	Clinton	25	2 N	1 W	2,992	Devonian	Osborne, H. Alf 1	Dry
79	Clinton	36	2 N	1 W	2,931	Devonian	J. D. McNeil, B. Kraft 2	Dry
80	Clinton	3	2 N	2 W	2,740	Devonian	C. E. Baldwin, Niddle Lake Club 1	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
81	Clinton	24	3 N	2 W	1,300	Bethel	Livesay & Kerwin, L. J. McAdams 1	Dry
82	Clinton	22	1 N	1 W	1,511	Bethel	Sistler et al, Barup 1	Dry
83	Clinton	16	2 N	1 W	1,470	Lower Mississippian	B. E. Martin, Heinzman 1	Dry
84	Clinton	9	2 N	1 W	3,005	Devonian	Martin, Heinzman 2	Dry
85	Clinton	30	2 N	3 W	1,123	Bethel	Ruwalde et al, H. B. Brefeld 1	Dry
86	Clinton	33	2 N	3 W	1,074	Cypress	Goldschmidt, Holtgrave 1	Dry
87	Clinton	34	3 N	1 W	1,431	Bethel	E. Self, F. Ries 1	Dry
88	Clinton	35	3 N	1 W	1,504	Bethel	Jones et al, Hestor 1	Dry
89	Clinton	14	3 N	1 W	1,771	Ste. Genevieve	Mudge Oil Co., Jensen 1	Dry
90	Clinton	14	1 N	2 W	1,372	Bethel	National Consumers, Fricke 1	Dry
91	Clinton	12	2 N	5 W	2,170	Devonian	M. C. Trumbell, Diltman Estate 1	Dry
92	Clinton	12	3 N	3 W	1,160	Bethel	Bell Oil Co., Inc., E. Matbaum 1	Dry
93	Clinton	14	1 N	1 W	1,415	Bethel	Sistler—Phoenix 1	Dry
94	Clinton	33	2 N	3 W	2,535	Devonian	Snell and Goldschmidt—Schaffer 1	Prod.*
95	Coles	31	12 N	10 E	1,280	Lower Mississippian	Coder, Horsley Heirs 1	Prod.*
96	Coles	18	12 N	14 W	505	Pennsylvanian	L. Trulock, Fee 2	Dry
97	Coles	35	12 N	7 E	4,908	St. Peter	Carter Oil Co., J. H. Seaman 1	Dry
98	Coles	35	12 N	7 E	2,027	McClosky	Carter Oil Co., J. Seaman 1-A	Prod.*
99	Coles	10	13 N	7 E	3,226	Devonian	Carter Oil Co., Cobb 1	Dry
100	Coles	10	11 N	7 E	2,123	St. Louis	Carter Oil Co., V. Ohm 1	Dry
101	Coles	36	13 N	9 E	752	Pennsylvanian	Tex Harvey, P. Erwin 1	Dry
102	Coles	26	12 N	7 E	2,107	St. Louis	Carter Oil Co., M. S. Pinnell 1	Dry
103	Coles	11	11 N	7 E	2,114	St. Louis	F. H. Bragassa et al, Trogden 1	Dry
104	Crawford	27	6 N	11 W	2,398	Salem	Seger et al, Steward 1	Dry
105	Crawford	14	7 N	14 W	3,504	Devonian	Denver Producers and Refiners, Dennis 1	Dry
106	Crawford	8	7 N	11 W	1,610	Ste. Genevieve	Barren et al, Headly 1	Dry
107	Crawford	17	6 N	10 W	1,592	Ste. Genevieve	Segar, Goodwin 1	Dry
108	Crawford	4	8 N	12 W	1,031	Pennsylvanian	Nelson Bros., First National Bank 1	Dry
109	Crawford	21	6 N	13 W	2,987	Devonian	Babler, Mitchell 1	Dry
110	Cumberland	22	10 N	10 E	710	Pennsylvanian	Ginther, Kemper 1	Dry
111	Dekalb	22	38 N	3 E	520	Galesville	J. E. Milburn et al, L. Fraas 1	Dry
112	Dewitt	6	20 N	3 E	1,570	Keokuk-Burlington	Waharp Oil & Gas Development Co., Thorpe 1	Dry
113	Douglas	12	15 N	9 E	615	Kinderhook	J. J. Broadus, Bennett 1	Dry
114	Douglas	33	16 N	9 E	630	Devonian	Taylor Drilling Company, Baldwin 1	Dry
115	Edgar	17	14 N	13 W	1,060	Pennsylvanian	H. C. Hawthorne, M. E. Hathaway 1	Dry
116	Edgar	13	13 N	14 W	440	Pennsylvanian	Ed Pearcy, Sholem 1	Dry



117	Edgar	30	16 N	11 W	1,810	Devonian	S. J. Burkett, Schoitker 1	Dry
118	Edgar	11	12 N	11 W	740	Pennsylvanian	A. S. Mims, Landis 1	Dry
119	Edgar	18	12 N	13 W	600	Mississippian	G. J. McDevitt et al, Wilhoit 1	Dry
120	Edgar	18	12 N	13 W	597	Pennsylvanian	Downey & Cain, Stark 1	Dry
121	Edgar	14	14 N	14 W	495	Pennsylvanian	H. Dunn, Irwin 1	Dry
122	Edgar	22	14 N	14 W	720	Pennsylvanian	A. M. Meyers, F. Stokes 1	Dry
123	Edwards	36	2 S	10 E	3,275	McClosky	Whisenant and Trenchard, Dunk 1	Dry
124	Edwards	8	3 S	14 W	3,161	St. Louis	Kingwood Oil Company, S. Frost 1	Dry
125	Edwards	13	3 S	10 E	3,261	Ste. Genevieve	Wilson Drilling Company et al, R. W. Curtiss 1	Dry
126	Edwards	21	1 S	10 E	3,410	St. Louis	Tidewater, Bunting 1	Dry
127	Edwards	2	1 N	10 E	3,294	Ste. Genevieve	S. D. Ford, Marshall 1	Dry
128	Edwards	3	3 S	14 W	2,600	Weiler	Barnes and Wickwire, Broster 1	Dry
129	Edwards	2	3 S	10 E	3,275	Ste. Genevieve	Hershbach, Perkins 1	Dry
130	Edwards	36	2 S	10 E	5,196	Devonian	Superior Oil Company, Scott 1	Dry
131	Edwards	4	1 S	10 E	3,128	St. Louis	Kingwood Oil Company, Shurtleff 1	Dry
132	Edwards	36	2 S	14 W	2,550	Tar Springs	Whisenant et al, Dunk 1-A	Dry
133	Edwards	8	1 S	10 E	3,367	St. Louis	R. Neely, Michael 1	Dry
134	Edwards	24	2 S	10 E	3,240	McClosky	Noah and Morrison, Barnes 1	Prod.*
135	Effingham	30	9 N	4 E	1,707	Bethel	Payton and McGraw, W. E. Beck 1	Dry
136	Effingham	26	9 N	6 E	2,656	St. Louis	F. Mitchell et al, H. Zumbahlen 1	Dry
137	Effingham	17	8 N	4 E	1,772	Paint Creek	Clow, Johnson 1	Dry
138	Effingham	31	9 N	4 E	1,714	Bethel	Goad et al, Henry 1	Dry
139	Effingham	14	6 N	5 E	2,674	St. Louis	Kingwood Oil Company, R. Martin 1	Dry
140	Effingham	13	7 N	5 E	2,704	St. Louis	Jarvis Bros., Albert Reitz 1	Dry
141	Effingham	18	8 N	4 E	1,616	Weiler	C. L. Ervin, Lilly 1	Dry
142	Effingham	22	6 N	5 E	2,503	McClosky	Kilpatrick, Mason Community 1	Prod.*
143	Fayette	28	5 N	4 E	2,511	Ste. Genevieve	Oil, Inc., C. T. Wade 1	Dry
144	Fayette	5	6 N	3 E	1,621	Weiler	Texas Company, G. Eldridge 1	Dry
145	Fayette	29	9 N	2 E	2,008	St. Louis	Kingwood Oil Company, Sloan 1	Dry
146	Fayette	1	5 N	2 E	1,789	Bethel	Texas Company, R. Pruitt 1	Dry
147	Fayette	34	6 N	2 E	1,622	Tar Springs	A. J. Hammer, Snodgrass 1	Dry
148	Fayette	27	7 N	3 E	2,015	Ste. Genevieve	St. Elmo Oil Company, Wiseman 1	Dry
149	Fayette	31	7 N	3 E	2,369	Salem	Texas Company, S. Buff 1	Dry
150	Fayette	23	7 N	1 E	675	Pennsylvanian	Greene, McDonald 1	Dry
151	Fayette	13	7 N	2 E	1,573	Glen Dean	Feinberg et al, Townsend 1	Dry
152	Fayette	19	5 N	3 E	1,820	Weiler	Sol Simon, A. Wollin 1	Dry
153	Fayette	3	5 N	3 E	1,656	Stray	Nash-Redwine, Rhodes 1	Dry
154	Fayette	34	5 N	1 E	1,895	Ste. Genevieve	Whisenant, Volberg 1	Dry
155	Fayette	7	5 N	1 W	1,911	St. Louis	C. P. Poland et al, A. Morrow 1	Dry
156	Fayette	27	4 N	1 W	1,734	St. Louis	Forrest Oil Company, B. D. Paine 1	Dry
157	Fayette	10	5 N	4 E	1,937	Glen Dean	Glenwood Oil Co., General American Ins. Co. 1	Dry
158	Fayette	24	6 N	2 E	1,665	Weiler	Jennings, Morgan 1	Dry
159	Fayette	18	6 N	3 E	1,800	Chester	Grandstaff, Severns 1	Dry
160	Fayette	19	8 N	3 E	1,660	Chester	J. G. Reynolds, Bieber 1	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
161	Fayette	35	9 N	3 E	1,590	Cypress	Allied Oil Company, Buzzard 1	Dry
162	Fayette	30	5 N	3 E	3,570	Devonian	Kingwood Oil Company, Aukamp 1	Dry
163	Fayette	35	6 N	2 E	1,665	Tar Springs	D. V. Lesh, Haynes 1	Dry
164	Fayette	9	6 N	3 E	1,653	Stray	Cooper et al, Hogue 1	Dry
165	Fayette	14	8 N	1 W	2,946	Devonian	Kingwood Oil Company, Dayton 1	Dry
166	Fayette	5	8 N	1 W	1,616	Ste. Genevieve	Cherry and Kidd, Farber 1	Dry
167	Ford	19	24 N	7 E	2,250	St. Peter	Nelson, Brown and Erp, Stroh 1	Dry
168	Franklin	24	6 S	1 E	2,860	Ste. Genevieve	E. S. Adkins, Old Ben Coal Company 2	Dry
169	Franklin	14	7 S	3 E	3,102	St. Louis	Adkins, Old Ben Coal "C" 1	Dry
170	Franklin	26	7 S	4 E	3,118	McClusky	Manley Oil Company, Downen 1	Dry
171	Franklin	22	7 S	4 E	3,202	Aux Vases	G. Venorsky, L. Auten	Prod.*
172	Fulton	10	7 N	1 E	815	"Niagara"	Lee Twp. Oil Company, Fredrick 1	Dry
173	Gallatin	4	8 S	8 E	2,846	St. Louis	Kingwood Oil Company, Robinson 1	Dry
174	Gallatin	15	8 S	10 E	241	Pennsylvanian	Egyptian Tie and Timber Company, Fee 2	Dry
175	Gallatin	21	7 S	9 E	3,100	St. Louis	Skelly-Exchange et al, Hale 1	Dry
176	Gallatin	7	8 S	9 E	3,060	St. Louis	Exchange Oil Company, Hensling 1	Dry
177	Gallatin	25	8 S	9 E	3,007	Rosiclare	Colbeck, Duffey 1	Dry
178	Gallatin	21	7 S	8 E	3,165	St. Louis	Carter Oil Company, O. Vineyard 1R	Prod.*
179	Gallatin	29	7 S	10 E	2,933	St. Louis	Halbert, Osborne 1	Dry
180	Gallatin	28	7 S	8 E	2,955	St. Louis	Powers et al, West 1	Dry
181	Gallatin	20	7 S	8 E	3,042	St. Louis	Exchange Oil Company, O. Evans 1	Dry
182	Gallatin	33	7 S	8 E	1,722	Palestine	Carter Oil Company, York 1	Prod.*
183	Greene	2	12 N	13 W	750	"Trenton"	G. Brainerd, Bowman 1	Dry
184	Hamilton	16	7 S	7 E	3,345	St. Louis	Carl Robinson, Gholson 1	Dry
185	Hamilton	9	7 S	6 E	3,105	Ste. Genevieve	Alma Oil and Gas Co., Fed. Chem. & Coke 2	Dry
186	Hamilton	6	6 S	7 E	2,695	Weiler	Kingwood Oil Company, Wilson 1	Prod.*
187	Hamilton	34	5 S	6 E	3,200	McClusky	Kingwood Oil Company, Morris 1	Prod.*
188	Hamilton	14	6 S	6 E	3,358	St. Louis	Kingwood Oil Company, Waring 1	Dry
189	Hamilton	15	6 S	6 E	3,315	Ste. Genevieve	North American Oil Company, Graves 1	Dry
190	Hamilton	13	6 S	6 E	3,494	Ste. Genevieve	Blackstock, Webb 1	Dry
191	Hamilton	23	6 S	5 E	3,257	Ste. Genevieve	Halbert, Lockwood 1	Dry
192	Hamilton	8	4 S	7 E	3,558	St. Louis	Texas Company, N. Adams 1	Dry
193	Hamilton	35	4 S	6 E	3,305	Ste. Genevieve	Exchange Oil Co., General American Ins. Co. 1	Dry
194	Hamilton	26	4 S	7 E	3,513	Ste. Genevieve	Woodrider Development Company, Walker 1	Dry
195	Hamilton	30	6 S	7 E	3,307	Ste. Genevieve	J. G. Buchl, J. H. Porter 1	Dry
196	Hamilton	11	5 S	7 E	3,583	Ste. Genevieve	Kingwood Oil Company, McGuire 1	Dry

197	Hamilton	31	5 S	7 E	3,257	McClosky	Kingwood and Exchange, Prince 1	Prod.*
198	Hamilton	3	4 S	6 E	3,470	McClosky	Kingwood, Williams 1	Prod.*
199	Hancock	23	7 N	5 W	685	Devonian	Emery and King, Charles Hast 1	Dry
200	Henderson	18	9 N	4 W	802	St. Peter	Media Oil Company, M. L. Evans 1	Dry
201	Henry	1	17 N	3 E	725	"Trenton"	R. Eke, Patten 1	Dry
202	Iroquois	5	27 N	12 W	1,485	St. Peter	J. D. Whitlow, T. M. Gannon 1	Dry
203	Jackson	8	9 S	1 W	2,056	Ste. Genevieve	Barton et al, Hall 1	Dry
204	Jackson	6	7 S	1 W	2,035	Ste. Genevieve	Trans-State Oil Company, Burroughs 1	Dry
205	Jackson	12	9 S	4 W	950	Tar Springs	F. R. Dunne et al, Baum 1	Dry
206	Jackson	32	10 S	3 W	2,294	St. Peter	Manellin, M. W. Baysinger 1	Dry
207	Jackson	35	8 S	5 W	2,950	"Trenton"	M. C. Trumbell, H. Bennett 1	Dry
208	Jasper	24	5 N	9 E	2,998	McClosky	Mammoth Producers and Refiners, Johnoff 1	Dry
209	Jasper	33	6 N	10 E	2,847	Ste. Genevieve	Mammoth Producers and Refiners, Johnoff 2	Dry
210	Jasper	17	5 N	10 E	2,850	McClosky	Pure Oil Company, Warren Cons. 1	Prod.*
211	Jasper	17	8 N	10 E	2,607	McClosky	Pure Oil Company, M. Aldridge 1	Prod.*
212	Jasper	7	5 N	10 E	2,920	Ste. Genevieve	Johnson, E. Mendenhall 1	Prod.*
213	Jasper	34	7 N	8 E	3,224	St. Louis	Jasper Oil Company, O. Pochler 1	Dry
214	Jasper	18	6 N	10 E	2,944	Ste. Genevieve	Continental Oil Company, G. P. Toland 1	Dry
215	Jasper	16	8 N	10 E	2,595	Ste. Genevieve	Schulman Bros., Diel 1	Dry
216	Jasper	20	8 N	10 E	2,601	Ste. Genevieve	H. & M. Smith, A. Phippen 1	Dry
217	Jasper	16	6 N	10 E	2,882	McClosky	Forrest Oil Co., H. Swick and Mendenhall 1	Dry
218	Jasper	17	6 N	10 E	2,820	McClosky	Pure Oil Company, Bergbower 1	Prod.*
219	Jasper	5	5 N	10 E	2,808	McClosky	Connor and Arnold, Swick 1	Prod.*
220	Jasper	28	2 S	1 E	2,275	Ste. Genevieve	Shieck, Payne Heirs 1	Prod.*
221	Jefferson	36	2 S	1 E	1,250	Pennsylvanian	Beavers et al, Eichman 3	Dry
222	Jefferson	10	3 S	2 E	4,578	Devonian	Gibson and Jennings, Charles Hall 1	Dry
223	Jefferson	10	1 S	2 E	2,155	Ste. Genevieve	Magnolia Petroleum Company, Lettie Jones 1	Dry
224	Jefferson	36	2 S	1 E	2,105	Aux Vases	Hughes Petroleum Corporation, Self 1	Dry
225	Jefferson	27	4 S	2 E	2,401	Ste. Genevieve	Gibson and Jennings, C. Hall 2	Dry
226	Jefferson	13	4 S	1 E	3,012	Ste. Genevieve	Carter Oil Company, Staley-Purcell 1	Dry
227	Jefferson	16	4 S	2 E	2,939	St. Louis	Tex Harvey Oil Company, Green 1	Dry
228	Jefferson	23	3 S	4 E	3,190	Ste. Genevieve	Tex Harvey Oil Company, Jefferson Coal Corporation 1	Dry
229	Jefferson	30	4 S	3 E	3,481	Salem	Cairo Union, Chaney 1	Dry
230	Jefferson	9	4 S	2 E	2,928	Ste. Genevieve	R. C. Young, Whittington 1	Dry
231	Jefferson	9	1 S	1 E	2,044	Bethel	Tex Harvey Oil Company, Consolidated Coal Co. 1	Dry
232	Jefferson	25	2 S	1 E	1,990	Bethel	M. Siegel, Roper 1	Dry
233	Jefferson	32	7 N	11 W	2,235	Franconia	Obering and Phillips, Howe 1	Prod.*
234	Jersey	7	7 N	10 W	810	Devonian-Silurian	A. W. Gerson, Knight 1	Dry
235	Jersey	22	8 N	12 W	1,220	St. Peter	T. W. Fagleton, Shaeffer 1	Dry
236	Jersey	30	11 S	3 E	4,165	Devonian	Hughes Petroleum Company, Kallall 1	Dry
237	Johnson	20	10 N	1 E	1,355	St. Peter	Tunnel Hill, J. Boner 1	Dry
238	Knox						C. W. Lomax, Nelson 1	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
239	Lawrence	30	4 N	10 W	1,754	St. Louis	Kentucky Natural Gas, Crews 1	Dry
240	Lawrence	10	4 N	11 W	1,701	Ste. Genevieve	J. W. Cannon et al, W. Zaner 1	Dry
241	Lawrence	20	4 N	13 W	2,577	McClusky	Whisenant and Trenchard, J. Wagner 1	Dry
242	Lawrence	27	5 N	11 W	3,262	Devonian	Bell Brothers, Wampler 1	Dry
243	Lawrence	30	5 N	13 W	2,841	St. Louis	D. Miller, J. Stout 1	Dry
244	Lawrence	5	2 N	12 W	2,255	Ste. Genevieve	Schmidt et al, C. E. Martin 1	Dry
245	Lawrence	13	4 N	11 W	1,077	Buchanan	H. J. Bowman, Shaw, Gray, Lahr 2	Dry
246	Lawrence	28	4 N	11 W	1,964	Ste. Genevieve	W. Payne, Monjar 1	Dry
247	Lawrence	27	2 N	13 W	2,721	McClusky	United Drilling and Producing Company, Formhoff 1	Prod.*
248	Logan	11	20 N	2 W	1,535	Silurian	Bay Oil Company, G. M. Lake 1	Dry
249	McDonough	18	6 N	4 W	740	Maquoketa	R. G. Gridland, S. E. Roberts 1	Dry
250	McDonough	30	4 N	3 W	915	St. Peter	Ellis Jones, Foster 1	Dry
251	McDonough	8	6 N	3 W	628	Niagaran	Bruninger, Fee 1	Dry
252	McDonough	4	5 N	4 W	801	"Trenton"	W. Vette, McClure 1	Dry
253	McDonough	29	5 N	4 W	630	"Niagaran"	C. B. Talbot, G. W. Foley 1	Dry
254	McDonough	10	4 N	4 W	530	"Niagaran"	Vette, Post 1	Dry
255	Macon	28	17 N	3 E	2,248	Silurian	Eureka Oil Corporation, W. F. Rhodes 1	Dry
256	Macon	11	16 N	3 E	2,360	Devonian	S. D. Jarvis, S. Veech 1	Dry
257	Macon	14	14 N	2 E	1,636	St. Louis	Gulf Refining Company, E. W. Hight 1	Dry
258	Macon	17	15 N	2 E	2,333	Devonian	J. H. Williams, Carter 1	Dry
259	Macoupin	1	10 N	6 W	720	Pennsylvanian	Miller, Crabtree 1	Dry
260	Macoupin	2	10 N	6 W	740	Pennsylvanian	Adams et al, J. E. Cole 1	Dry
261	Macoupin	2	10 N	6 W	633	Pennsylvanian	Adams and Leagers, J. A. Cole 1	Dry
262	Macoupin	10	10 N	6 W	621	Pennsylvanian	Adams and Leagers, Arter 1	Dry
263	Macoupin	12	10 N	6 W	675	Pennsylvanian	Lee et al, Banning 1	Dry
264	Macoupin	35	11 N	6 W	625	Pennsylvanian	Peyton et al, Friend 1	Dry
265	Macoupin	7	9 N	7 W	1,380	Devonian	O. Z. Smith et al, Kline 1	Dry
266	Macoupin	22	8 N	8 W	505	Pennsylvanian	Williams et al, Morrison 1	Dry
267	Macoupin	35	9 N	8 W	1,607	Devonian	W. A. Steward, Carlinville National Bank 1	Dry
268	Madison	1	5 N	6 W	1,880	Devonian	J. R. Wilson, R. F. Dauderman 1	Dry
269	Madison	22	4 N	5 W	3,270	St. Peter	Jennings Bros., Mossman 1	Dry
270	Madison	30	6 N	5 W	1,917	Devonian	R. Jones et al, Farly 1	Dry
271	Madison	7	3 N	8 W	1,276	Devonian	Vorbett, M. Keller 1	Dry
272	Madison	5	5 N	5 W	1,981	Devonian	Cherry and Kidd, I eef 1	Dry
273	Madison	17	3 N	5 W	2,877	Platteville	E. J. Foescke, J. O. Riegel 1	Dry



274	Madison	23	5 N	6 W	1,910	Devonian	Baldwin, Daiber 1	Dry
275	Marion	33	1 N	2 E	2,165	McClusky	Carter Oil Company, Mona Milton 1	Dry
276	Marion	9	2 N	1 E	3,109	Devonian	E. F. Jones, Kisala 1	Dry
277	Marion	13	2 N	2 E	895	Pennsylvanian	A. J. Deleno, Sherman 1	Dry
278	Marion	27	2 N	2 E	1,150	Menard	Inland Drilling Company, Moser 1	Dry
279	Marion	21	1 N	2 E	2,655	Salem	Texas Company, R. N. Davis 1	Dry
280	Marion	7	3 N	1 E	1,501	Bethel	Jones and Adams, Adams 1	Dry
281	Marion	19	3 N	1 E	1,466	Bethel	Johnson, Nichols 1	Dry
282	Marion	2	3 N	2 E	2,208	Ste. Genevieve	Swan-King, Bilek 1	Dry
283	Marion	17	1 N	2 E	2,144	Aux Vases	Lachtrup, Fyke Cemetery 1	Dry
284	Marion	28	1 N	2 E	2,313	St. Louis	Carter Oil Company, C. E. Prather 1	Dry
285	Marion	15	3 N	2 E	2,315	Ste. Genevieve	Pray, Thurman 1	Dry
286	Marion	20	3 N	2 E	3,823	Devonian	R. E. Angle et al, Zollar 1	Dry
287	Marion	7	1 N	1 E	1,150	Pennsylvanian	Fetheridge, Dealer 1	Dry
288	Marion	7	1 N	1 E	1,010	Pennsylvanian	Petrol Oil Corporation, Easterday 1	Dry
289	Marion	25	2 N	1 E	3,652	Devonian	Hensley, Fox 1	Dry
290	Marion	35	2 N	1 E	3,620	Devonian	A. L. Miller et al, West Estate 1	Dry
291	Marion	19	2 N	2 E	3,555	Devonian	Magnolia Petroleum Company, D. McIntosh 1	Dry
292	Marion	31	4 N	4 E	2,481	Ste. Genevieve	Stewart, Whittenburg 1	Dry
293	Marion	27	2 N	1 E	1,895	Renault	Jones and Jones, Ross 1	Dry
294	Marion	31	2 N	1 E	906	Pennsylvanian	Skeen et al, Geary 1	Dry
295	Marion	4	3 N	1 E	1,515	Bethel	Henshaw Bros., Walker Estate 1	Dry
296	Marion	31	2 N	1 E	3,194	Devonian	Ponting, Rohner 1	Dry
297	Marion	19	2 N	3 E	3,957	Devonian	Kingwood Oil Company, H. D. Spencer 1	Dry
298	Marion	20	4 N	2 E	2,130	Ste. Genevieve	H & K Drilling Company, Nelson 1-A	Dry
299	Marion	32	1 N	1 E	2,185	Ste. Genevieve	Johnson et al, Johnson 2	Dry
300	Marion	32	2 N	1 E	1,200	Chester	P. Jones, Fyke 1	Dry
301	Marion	28	3 N	1 E	1,593	Bethel	Creeds, Kerwin 1	Dry
302	Marion	17	4 N	1 E	1,785	Ste. Genevieve	P. Doran, Meador 1	Dry
303	Marion	3	2 N	2 E	2,324	St. Louis	Texas Company, F. Donahue 1	Dry
304	Marion	5	2 N	2 E	2,296	St. Louis	Texas Company, P. B. Chance 2	Dry
305	Marion	29	3 N	3 E	2,499	St. Louis	Clevetex Producing Company, E. Squibb 1	Dry
306	Marion	18	4 N	3 E	2,237	Ste. Genevieve	Kingwood Oil Company, Lowe 1	Dry
307	Marion	4	2 N	2 E	2,235	McClusky	Texas Company—Chance 1	Prod.*
308	Massac	23	14 S	3 E	3,030	Devonian	Kohle et al, O. W. Harvick 1	Dry
309	Massac	3	16 S	5 W	2,335	Devonian	Marshall Drilling Company, McGhee 1	Dry
310	Menard	26	19 N	5 W	1,063	Burlington	William Johnson, T. Johnson 1	Dry
311	Monroe	13	3 S	8 W	1,800	"Trenton"	O. O. Borden, Schuster 1	Dry
312	Monroe	31	1 N	10 W	832	"Trenton"	Morris et al, Gummershimer 1	Dry
313	Monroe	30	3 S	7 W	600	Lower Mississippian	Davis and Brand, C. J. Krause 1	Dry
314	Monroe	15	1 S	10 W	860	"Trenton"	Dorsey Oil Company, Rose 1	Dry
315	Monroe	25	4 S	11 W	780	"Trenton"	Henry Kyatt, Jacobs 1	Dry
316	Monroe	15	3 S	10 W	1,100	Lower Ordovician	Hughes Petroleum Corp., F. Fenaia 1	Dry
317	Monroe	19	1 S	10 W	2,270	Cambrian	Hoffer, Boyer 2	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
318	Montgomery	30	10 N	4 W	632	Pennsylvanian	Henderson Bros., Ostermier 1	Prod.*
319	Montgomery	19	10 N	4 W	1,005	Mississippian	Henderson, Eaglehoff 1	Dry
320	Montgomery	19	10 N	4 W	650	Pennsylvanian	O. W. Burroughs, Eaglehoff 1	Dry
321	Montgomery	1	10 N	5 W	2,523	"Trenton"	Gulf, C. R. Brandon 1	Dry
322	Montgomery	3	8 N	5 W	667	Pottsville	Young et al, Yowell 1	Dry
323	Montgomery	15	8 N	4 W	613	Pennsylvanian	Southern and Petty, Sawyer 1	Dry
324	Montgomery	13	9 N	4 W	2,160	Devonian	Topf, Breitenbach 1	Dry
325	Montgomery	30	11 N	5 W	665	Pottsville	Dooley, W. Lewis 1	Dry
326	Montgomery	31	11 N	5 W	944	St. Louis	Burroughs et al, Kilton 1	Dry
327	Montgomery	31	11 N	5 W	624	Pottsville	H. Randall et al, Street 1	Dry
328	Montgomery	9	9 N	5 W	665	Pennsylvanian	Brown, Finley 1	Prod.*
329	Montgomery	30	10 N	4 W	552	Pennsylvanian	Henderson Bros., Arling 1	Dry
330	Montgomery	32	11 N	5 W	665	Pottsville	Grant et al, Wood 1	Dry
331	Montgomery	6	10 N	5 W	693	Pennsylvanian	Miller, F. Alford 1	Dry
332	Montgomery	30	11 N	5 W	650	Pennsylvanian	R. Brown, Witt 1	Dry
333	Montgomery	20	8 N	5 W	2,577	"Trenton"	Seaboard Oil Company, O. Lay 1	Dry
334	Montgomery	24	10 N	5 W	645	Pottsville	Dorton Edge Oil Company, Taman 1	Dry
335	Montgomery	29	11 N	5 W	555	Pottsville	Algona Oil Company, W. Waggoner 2	Dry
336	Montgomery	29	11 N	5 W	635	Pennsylvanian	Cunningham, J. Waggoner 1	Dry
337	Montgomery	7	7 N	2 W	2,350	Devonian	H. W. Green, Blackburn 1	Dry
338	Montgomery	11	7 N	4 W	907	Bethel	L. C. Kessler, A. Nowak "A" 1	Dry
339	Montgomery	11	7 N	4 W	1,202	Ste. Genevieve	Talifero et al, A. Nowak 1	Dry
340	Montgomery	3	8 N	5 W	774	Pennsylvanian	F. Solomon, Carroll 1	Dry
341	Montgomery	30	8 N	5 W	865	Ste. Genevieve	W. L. Topf, Nieman 1	Dry
342	Montgomery	12	10 N	5 W	598	Pennsylvanian	Gulf Refining Company, L. Moore 1	Prod.*
343	Montgomery	24	10 N	5 W	688	Pennsylvanian	Scherrer, Johnson 1	Dry
344	Montgomery	16	12 N	5 W	645	Pottsville	J. E. Hood, Dambacher 1	Dry
345	Montgomery	4	8 N	2 W	1,254	Ste. Genevieve	National Petroleum Company, Bost 1	Dry
346	Montgomery	24	8 N	4 W	950	Bethel	Swords and Thompson, Jett 1	Dry
347	Montgomery	19	9 N	3 W	1,021	Chester	W. L. Topf, Fisher 1	Dry
348	Montgomery	25	10 N	5 W	664	Pennsylvanian	Scherrer et al, Lyon 1	Dry
349	Peoria	17	8 N	6 E	1,011	Devonian	Blue Bell Oil Company, Kyle 1	Dry
350	Perry	15	4 S	3 W	1,671	McClosky	Magnolia Petroleum Company, H. Bruns 1	Dry
351	Perry	4	5 S	1 W	3,185	Devonian	Stanolind, Kimzey 1	Dry
352	Perry	13	5 S	3 W	2,942	Devonian	Blankenship, City Park 1	Dry
353	Perry	14	5 S	3 W	1,722	Fredonia	Robinson, Gruner 1	Dry

354	Perry	13	4 S	2 W	1,303	Bethel	Thompson Drilling Company, Prusacki 1	Dry
355	Perry	15	4 S	2 W	1,325	Bethel	G. H. Blankenship, Rathon Estate 1	Dry
356	Perry	24	4 S	2 W	1,130	Bethel	Blankenship, Malinski 1	Dry
357	Perry	24	4 S	2 W	1,381	Bethel	Blankenship, Bednarkiewicz 1	Dry
358	Pike	11	7 S	3 W	750	St. Peter	G. Brainerd, Allison 1	Dry
359	Pike	35	4 S	7 W	231	"Trenton"	Wooters et al, Gorton 1	Dry
360	Pike	35	4 S	7 W	222	Maquoketa	West Pike Petroleum Company, O. H. Reinhardt 1	Dry
361	Pike	21	5 S	6 W	345	"Trenton"	L. Hunt, Fisher 1	Dry
362	Pope	19	11 S	5 E	1,398	Glen Dean	Gardner and Smith, Peoples 1	Dry
363	Pope	10	11 S	5 E	1,692	Ste. Genevieve	Ohio Oil Company, General American Insurance Co. 1	Dry
364	Randolph	2	7 S	6 W	734	Aux Vases	G & L Oil Company, Schultz 1	Dry
365	Randolph	2	7 S	6 W	546	Chester	G & L Oil Company, Schultz 2	Dry
366	Randolph	11	5 S	5 W	996	Cypress	Egyptian Tie and Timber Co., V. Peard 1	Dry
367	Randolph	15	5 S	7 W	600	Chester	Harman, J. Lauber 1	Dry
368	Randolph	25	7 S	6 W	1,024	Ste. Genevieve	Christian and Wagner, Waltemater 1	Dry
369	Randolph	16	7 S	7 W	1,698	"Trenton"	R. H. Anderson et al, J. B. Cassout 1	Dry
370	Randolph	17	5 S	5 W	2,365	Devonian	Rand Development Company, Grant 1	Dry
371	Randolph	26	5 S	6 W	2,053	Devonian	F. Oswald et al, J. C. Fullerton 1	Dry
372	Richland	26	2 N	10 E	3,326	Ste. Genevieve	Robinson et al, A. Jenner 1	Dry
373	Richland	3	3 N	9 E	2,985	Ste. Genevieve	Duncan, Davenport 1	Dry
374	Richland	1	2 N	10 E	3,398	Ste. Genevieve	Illinois Producers Corporation, W. W. Sforzwood 1	Dry
375	Richland	21	2 N	14 W	2,781	Weiler	C. B. Hill, J. Wood 1	Dry
376	Richland	26	4 N	10 E	3,130	Ste. Genevieve	Wayne Development Company, A. F. Wattleworth 1-B	Dry
377	St. Clair	28	2 S	6 W	2,576	"Trenton"	L. A. Painter, H. C. Petrie 1	Dry
378	St. Clair	10	3 S	7 W	1,704	Silurian	Joe Longoria et al, J. Scholler 1	Dry
379	St. Clair	31	3 S	6 W	1,415	Lower Mississippian	Morrison, H. A. Smith 1	Dry
380	St. Clair	24	1 N	10 W	764	"Trenton"	Blom and Jefferies Oil Company, Hy Harris 1	Dry
381	St. Clair	34	2 N	9 W	1,629	"Trenton"	Harris et al, City Park 1	Dry
382	St. Clair	28	1 N	10 W	727	"Trenton"	Dr. Rose, Orton 1	Dry
383	St. Clair	33	1 N	10 W	815	"Trenton"	R. A. Roth, Mense 1	Dry
384	Saline	1	8 S	7 E	2,919	McClosky	Simon Henry et al, Seten 1	Dry
385	Saline	18	8 S	6 E	3,142	St. Louis	J. Rowe et al, Summers 1	Dry
386	Saline	8	10 S	5 E	4,624	Devonian	C. V. & F. W. Parker, Fee 1	Dry
387	Saline	15	10 S	6 E	1,795	Hardinsburg	H. G. Spiller, A. Sisk 1	Dry
388	Saline	28	8 S	7 E	2,219	Tar Springs	Patler et al, J. O. Thaxton 1	Dry
389	Schuyler	35	3 N	1 W	831	Maquoketa	J. Mackler, S. Simpson 1	Dry
390	Schuyler	2	3 N	3 W	676	"Niagara"	H. M. Miller, J. R. Wilson 1	Dry
391	Schuyler	21	3 N	4 W	990	St. Peter	A. W. Gerson, A. Foster 1	Dry
392	Schuyler	6	2 N	3 W	587	"Niagara"	Thompson et al, Eaton 1	Dry
393	Schuyler	9	3 N	2 W	981	"Trenton"	O. A. Reed, B. Applegate 1	Dry

TABLE 7.—(Continued)

No.	County	Location			Total depth (feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
394	Schuyler	22	3 N	2 W	738	"Niagara"	O. A. Reed, S. F. Horney 1	Dry
395	Schuyler	15	3 N	3 W	604	"Niagara"	M. Siegel, F. Hite 1	Dry
396	Scott	17	13 N	12 W	935	Decorah	Erie Drilling Company, Neate 1	Dry
397	Shelby	18	10 N	6 E	2,049	Bethel	Max Pray et al, Russell Estate 1	Dry
398	Shelby	32	11 N	2 E	3,080	Devonian	Seaboard & Wiggins, Miller 1	Dry
399	Shelby	20	14 N	2 E	1,979	Lower Mississippian	Rex Development Company, O'Dell 1	Dry
400	Shelby	22	10 N	4 E	2,010	Ste. Genevieve	Paul Doran, F. G. Compton 1	Dry
401	Shelby	36	12 N	5 E	1,465	Aux Vases	Baughner, Anderson 1	Dry
402	Shelby	14	9 N	4 E	2,005	Bethel	Goad, Goad 1	Dry
403	Shelby	33	10 N	4 E	2,005	Aux Vases	P. Doran, Yake-Gallagher 1	Dry
404	Shelby	23	10 N	5 E	1,926	Paint Creek	Doran et al, Fritz 1	Dry
405	Shelby	36	13 N	2 E	1,035	Pennsylvanian	L. Trulock, H. Lantz 1	Dry
406	Tazewell	15	22 N	5 W	440	Pennsylvanian	W. F. Adams, Mullinex 1	(3)
407	Tazewell	28	24 N	2 W	1,235	Silurian	H. V. House, W. H. Greening 1	Dry
408	Wabash	11	1 N	12 W	2,232	McClosky	Pollock, Whiteside 1	Dry
409	Wabash	31	1 N	12 W	2,143	Cypress	D & H Drilling Company, Trapp Bros. 1	Dry
410	Wabash	24	1 S	13 W	2,038	Tar Springs	C. A. Carter et al, H. A. Steckly 1	Dry
411	Wabash	6	1 S	12 W	2,434	McClosky	C. Everts, Trapp 1	Dry
412	Wabash	17	1 S	12 W	2,050	Weiler	Delta Drilling Company, Dr. Utter 1	Prod.*
413	Wabash	16	2 S	13 W	2,448	Weiler	J. R. Mitchell et al, C. M. Batson 1	Dry
414	Wabash	17	2 S	13 W	2,843	McClosky	Magnolia Petroleum Company, E. Fifer 1	Dry
415	Wabash	4	1 N	13 W	2,743	McClosky	Riddle et al, Seibert 1	Prod.*
416	Wabash	5	1 N	13 W	2,787	Ste. Genevieve	Central States Oil Company, C. B. Brines 1	Dry
417	Wabash	4	2 S	13 W	2,494	Weiler	Mabee Drilling Company, Bump 6	Dry
418	Wabash	16	1 S	12 W	2,053	Weiler	O'Meara, Couch 1	Dry
419	Wabash	14	2 S	13 W	2,805	Ste. Genevieve	Lindas, Rose 1	Dry
420	Wabash	3	3 S	14 W	2,569	Weiler	R. Ryan et al, Sigert 1	Dry
421	Wabash	2	1 N	12 W	1,950	Weiler	Pollock, Cisel 1	Dry
422	Wabash	7	1 N	12 W	1,556	Pennsylvanian	Hartman, Litherland 1	Dry
423	Wabash	27	1 S	13 W	2,626	McClosky	B. Lambert, Sieler 1	Prod.*
424	Wabash	7	1 N	12 W	1,600	Pennsylvanian	Snowden, Litherland 1	Dry
425	Wabash	28	1 S	13 W	2,758	Ste. Genevieve	D. H. Whatley, Fearheiley 1	Dry
426	Wabash	9	1 N	13 W	2,719	Ste. Genevieve	Hayes et al, Gimpel 1	Dry
427	Wabash	7	1 N	12 W	1,550	Pennsylvanian	R. B. Martin, Pixley 1	Dry
428	Wabash	35	2 N	12 W	1,450	Pennsylvanian	Leighy et al, W. Trimble 1	Dry
429	Wabash	7	2 S	13 W	2,895	Ste. Genevieve	Ryan Oil Company, Schafer Estate 1	Dry



430	Wabash	11	3 S	14 W	2,886	Ste. Genevieve	N. V. Duncan, Schroeder 1	Dry
431	Wabash	36	1 N	13 W	2,580	Ste. Genevieve	Hayes et al, Zimmerman 1	Dry
432	Wabash	11	2 S	13 W	2,750	Ste. Genevieve	D & H Drilling Company, L. F. Beall 3	Dry
433	Washington	25	3 S	3 W	943	Glen Dean	H. Hubbard, A. Carson 1	Dry
434	Washington	3	2 S	1 W	1,642	Paint Creek	Chicago Syndicate, A. Hanke 1	Dry
435	Washington	32	3 S	2 W	1,652	McClosky	Macnolia Petroleum Company, Bonczyk 1	Dry
436	Washington	23	1 S	1 W	1,538	Bethel	Gulf Refining Company, Buhl 1	Prod.*
437	Washington	9	2 S	2 W	3,152	Devonian	Ohio Oil Company, E. Buchner 1	Dry
438	Washington	33	2 S	3 W	1,534	Fredonia	Gardner and Woods, Harre 1	Dry
439	Washington	14	1 S	1 W	1,635	Bethel	Espereza, Baldwin 1	Dry
440	Washington	23	2 S	2 W	1,861	Ste. Genevieve	Kyatt, Smith 1	Dry
441	Washington	13	1 S	2 W	1,547	Bethel	H. C. Gass, Kasten 1	Dry
442	Washington	22	1 S	1 W	3,199	Devonian	Mudge, F. Mitchell 1	Dry
443	Washington	27	1 S	1 W	1,654	Bethel	Pitchford et al, W. J. Hafer 1	Dry
444	Washington	28	2 S	3 W	1,326	Bethel	Gardner Petroleum Company, Frederking 1	Dry
445	Washington	18	3 S	1 W	1,649	Ste. Genevieve	Williams, S. Pijut 1	Dry
446	Washington	30	3 S	4 W	1,220	St. Louis	Hubbard, Hunleth 1	Dry
447	Washington	27	2 S	4 W	1,357	Ste. Genevieve	Watt, Kentenhouse 1	Dry
448	Washington	19	3 S	4 W	1,032	Cypress	Blalack et al, Ketter 1	Dry
449	Washington	19	3 S	4 W	1,070	Bethel	H. Hubbard, Hunleth 2	Dry
450	Washington	5	2 S	1 W	1,665	Bethel	Barton et al, Edmiston 1	Dry
451	Washington	31	3 S	4 W	926	Weiler	L. Lilley, Noble 1	Dry
452	Washington	33	3 S	1 W	1,671	Ste. Genevieve	J. Pugh, Wynn 1	Dry
453	Washington	29	3 S	4 W	1,186	Bethel	DeKalb et al, Hundleth 3	Prod.*
454	Washington	29	3 S	4 W	1,155	Ste. Genevieve	W. C. McBride, Inc., H. Frieman 1	Dry
455	Wayne	21	1 S	6 E	3,487	St. Louis	J. Russell, Thilmony 1	Dry
456	Wayne	24	1 S	9 E	2,525	Menard—Vienna	A. J. Albright, Collins 1	Dry
457	Wayne	31	2 S	8 E	3,434	McClosky	South State Dev. Co., William Grubb 1	Dry
458	Wayne	24	2 S	6 E	3,300	McClosky	Ozier et al, Accola 1	Dry
459	Wayne	12	3 S	9 E	3,413	Ste. Genevieve	H. Randall, Horton 1	Dry
460	Wayne	7	1 N	8 E	3,105	Ste. Genevieve	Pure Oil Company, L. Miller 1-A	Dry
461	Wayne	1	3 S	8 E	3,498	Ste. Genevieve	Nelson and Strawser, Vaughn 1	Dry
462	Wayne	22	2 N	9 E	3,151	Ste. Genevieve	Jarvis Bros. et al, F. Hazel Estate 1	Dry
463	Wayne	22	2 N	9 E	3,302	Ste. Genevieve	Jarvis et al, Hazel 1	Dry
464	Wayne	9	3 S	9 E	3,427	Ste. Genevieve	Southern Petroleum Corporation, Vaught 1	Dry
465	Wayne	3	1 S	6 E	3,300	McClosky	Lessing Alch, Conrad Dickey 1	Prod.*
466	Wayne	3	1 S	7 E	3,312	Ste. Genevieve	Pure Oil Company, G. Burton 1	Prod.*
467	Wayne	1	1 N	7 E	3,036	McClosky	Pure Oil Company, R. Macklin 1	Dry
468	Wayne	20	2 N	8 E	3,084	Ste. Genevieve	N. V. Duncan, A. Skelton 1	Dry
469	Wayne	24	2 S	9 E	3,366	Ste. Genevieve	Powell, Moore 1	Dry
470	Wayne	2	1 N	7 E	3,084	Ste. Genevieve	J. W. Sanders, R. C. Cooper 1	Dry
471	Wayne	25	2 N	6 E	3,277	Ste. Genevieve	Chebigny, Cook 1	Dry
472	Wayne	29	1 S	5 E	3,087	Ste. Genevieve	C. Robinson, Williams 1	Dry
473	Wayne	3	2 S	6 E	3,373	Ste. Genevieve	McCoy and Henry, Forth 1	Dry

TABLE 7.—(Concluded)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
474	Wayne	4	3 S	8 E	3,496	McClosky	M.I.O.U. Corporation, H. French 1	Prod.*
475	Wayne	4	3 S	8 E	3,569	Ste. Genevieve	Ichenhauser and Brentano, C. Shreves 1	Dry
476	Wayne	17	3 S	8 E	3,522	Ste. Genevieve	Lavender and French, T. G. Puckett 1	Dry
477	Wayne	28	2 S	7 E	3,340	McClosky	H. H. Weinert—C. Bright 1	Prod.*
478	White	28	3 S	9 E	3,505	McClosky	Bishop, Harrington, Bush et al, G. Griffin 1	Prod.*
479	White	31	5 S	10 E	3,195	St. Louis	R. W. Slemaker, Hannah 1	Dry
480	White	27	6 S	9 E	2,764	Wallerburg	Bates and Lichlyter, Aud 1	Prod.*
481	White	2	7 S	9 E	3,250	St. Louis	Kingwood Oil Company, Bayley 1	Dry
482	White	36	4 S	10 E	3,095	Ste. Genevieve	Phillips, Cleveland 1	Dry
483	White	14	6 S	10 E	3,131	Ste. Genevieve	Carl Robinson, Randolph Heirs 1	Dry
484	White	18	6 S	10 E	1,585	Pennsylvanian	F. M. Blair, McCarthy 1	Dry
485	White	33	3 S	9 E	3,519	Ste. Genevieve	Cooke Oil Company, G. Griffin 1	Dry
486	White	28	5 S	8 E	3,482	St. Louis	C. D. Neff et al, Buss Heirs 1	Dry
487	White	35	3 S	9 E	3,520	St. Louis	L. Horton et al, Schoemann 1	Dry
488	White	2	4 S	9 E	3,375	Ste. Genevieve	Sun Oil Company, C. Brown 1	Prod.*
489	White	31	4 S	11 E	5,349	Devonian	Phillips Petroleum Company, Garr 1	Dry
490	White	22	4 S	14 W	3,005	Ste. Genevieve	P. Miller, Ford Heirs 1	Dry
491	White	35	5 S	9 E	2,043	Chester	Y. Rogers, Holderbee Estate 1	Dry
492	White	35	6 S	9 E	3,098	St. Louis	Carter, W. L. Questell 1	Dry
493	White	3	4 S	9 E	3,500	Ste. Genevieve	Ladas, Kershaw 1	Dry
494	White	34	6 S	10 E	3,095	Ste. Genevieve	Jarvis Bros., A. Ackerman 1	Dry
495	White	13	6 S	10 E	2,960	Ste. Genevieve	J. B. Flemming, Holderman 1	Dry
496	White	2	7 S	10 E	2,993	St. Louis	Eason Oil Company, Pearce 1	Dry
497	White	30	6 S	9 E	3,170	Ste. Genevieve	Bay Oil Company, E. Holmes 1	Dry
498	White	8	7 S	10 E	3,075	St. Louis	Sitesinger et al, Miller 1	Dry
499	White	21	3 S	8 E	3,539	Ste. Genevieve	Orient, L. Foraker Morgan 1	Dry
500	White	5	5 S	9 E	3,375	Ste. Genevieve	W. M. Angle, C. O. Myers 1	Dry
501	White	22	3 S	10 E	3,283	St. Louis	Morrison and Noah, S. Kershaw 1	Dry
502	White	9	4 S	8 E	3,506	Ste. Genevieve	Cobb and Briscoe, J. Beer 1	Dry
503	White	11	5 S	9 E	3,465	Ste. Genevieve	Robinson, Taylor 1	Dry
504	White	30	3 S	9 E	3,602	Ste. Genevieve	C. A. French et al, Mae Roy 1	Dry
505	White	28	3 S	14 W	2,617	Weiler	Patton and Carey, Reeves Heirs 1	Prod.*
506	White	26	5 S	9 E	3,167	McClosky	Mazda and Palmer, L. Storms 1	Prod.*
507	White	7	5 S	14 W	2,911	Aux Vases	O. O. Borden, I. McCallister 1	Prod.*
508	White	32	6 S	9 E	3,154	Ste. Genevieve	J. T. Bradley, C. Randolph 1	Dry
509	White	29	3 S	9 E	3,486	McClosky	Hayes and Goad—Goad 1	Prod.*

510	White	25	6 S	8 E	2,528	Hardinsburg	J. W. Carter et al.—Johnson 1	Prod.*
511	White	26	6 S	8 E	3,077	McClosky	Mercer Bros.—Chapman 1	Prod.*
512	White	27	4 S	14 W	2,296	Tar Springs	Superior—Hutton 2	Prod.*
513	White	36	4 S	10 E	2,971	Aux Vases	Neff—Garner 1	Prod.*
514	White	13	7 S	8 E	2,248	Tar Springs	Kingwood—Martin 1	Prod.*
515	White	11	7 S	9 E	1,516	Pennsylvanian	Carter Oil Company—Dagley 1	Prod.*
516	White	19	8 S	10 E	2,742	McClosky	Colbeck—Egyptian T. and T. Co. 1	Prod.*
517	Williamson	2	10 S	1 E	2,232	St. Louis	Carterville Oil and Gas Co., M. B. Culp 1	Dry
518	Williamson	4	9 S	2 E	1,630	Cypress	J. Blalack et al, W. P. Hill 1	Dry
519	Williamson	9	9 S	2 E	2,561	Ste. Genevieve	Blalack, Smothers 1	Dry
520	Williamson	1	10 S	1 E	2,045	Ste. Genevieve	Carterville Oil and Gas Company, L. Cannon 1	Dry
521	Williamson	1	10 S	1 E	2,020	Ste. Genevieve	Nation Oil Company, Coleman 1	Dry
522	Woodford	31	26 N	1 E	2,175	St. Peter	Morton Oil and Gas Company, Moreland 1	Dry
523	Woodford	18	25 N	1 E	1,770	"Trenton"	Morton Oil and Gas, J. F. Roche 1	Dry

\* Discovery well of new pool or extension; see table.

1 Extension.

2 3,000,000 cubic feet gas.

3 Junked Holes.

